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1988 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

A. G. Hodgson

March 1989

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Oak Ridge Gaseous Diffusion Plant Oak Ridge, Tennessee 37831 Operated by MARTIN MARIETTA ENERGY SYSTEMS, INC. for the U.S. DEPARTMENT OF ENERGY Under Contract No. DEAC05-84-OR21400

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1988 Annual Report of Hazardous Waste Activities for the Oak Ridge

Gaseous Diffusion Plant

A. G. Hodgson

Abstract: This document is a collection of hazardous waste steam reports for

1988. It documents the quantities handled and the years the waste has been handled at K-25. Excellent overview of wastes generated at

Reviewer: J. Lamb

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Entered By: cmv

Keywords: Waste disposal, Waste generation

United States Department of Energy, K-25 Site

Hazardous Waste Notification

Organization's name | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 2. Mailing address City | State|Zip OAK RIDGE PO BOX 2003 TN 37831 3. Physical location or address | County name ٠., ROANE Tennessee State Route 58 at Blair Road Latitude | Longitude 35° 55' 00" 84° 25' 00" 4. Owner name | Phone UNITED STATES DEPT OF ENERGY (615) 576-084 MANAGER OR operator name Phone UNITED STATES DEPT OF ENERGY (615) 576-084 6. Principal technical contact Phone M C SMITH (615) 576-097 7. Number of employees | Year began | SIC codes | Job shop 1943 . 2819, , , 2.500 NO 8. Emergency contacts | Time period covered | Phone Name A DOE SECURITY OPERATIONS CENTER 24 HOURS (615)576-1004 B K-25 PLANT SHIFT SUPERINTENDENT 24 HOURS (615)574-3282 9. Current environmental permits for air, water, and radiological permits. Give permit type, number and expiration date. In a range of related permits summarize by giving the first and last permit number. SEE ATTACHMENT #1 10. I certify that this information is true, accurate and complete. Signature of authorized representative, title, date Below is for Department use only. 11. Date roud! County | Priority | Generator | Small Gen. | Special status 1. | Yes No | Yes No | Date regulated | Date deregulated | Insp. Freq. 12. Date closed 1/01/84 /00/00 /00/00 13. Comments .

ATTACHMENT 1

United Sates Department of Energy, K-25 Site EPA ID Code: TN089-009-0004

AIR	012469P	020925P
,	012478P	021016P
	012483P	021139P
	012488P	021198P
	012503P-012506P	021251P-021253P
	012508P	021563P
	012659P-012661P	022111P
	012732P	022893P
	014063P	023001P
	015097P	023118P-023120P
	015098P	023662P-023663P
	015099P-015101P	023762P
	015105P	023794P
	015596P	023796P-023798P
	015690P	024105P
	015702P-015704P	024270P-024272P
	015830P	024297P
	015937P	· 024299P
	016306P	024301P-024305P
	016309P-016313P	024335P
	016492P	024369P
	016744P	024453P-024455P
	017051P	024498P
	017053P	024500P
	017055P	024502P-024503P
	017336P-017339P	024614P
	017846P	024756P & 024758P
	018525P-018527P	024910P
	019608P-019609P	024943P
	020514P	024947P
	020515F	025120P
	0205161	025243P
	020691P	025443P ♣
	020692P	025250P
	020721P	025490P-025493P

ATTACHMENT 1 (Cont.)

United States Department of Energy, K-25 Site EPA ID Code: TN089-009-0004

AIR	025494P-025495P	025843
	025514P	026164P
	025585P	· 026548P
	025655P-025658P	026676P

Attachment 1 (Cont.)

United Sates Department of Energy, K-25 Site EPA ID Code: TN089-009-0004

WATER

TN0002950

RAD I OLOGICAL

None

SOLID WASTE

TN089-009-0004

United States Department of Energy, K-25 Site.

Waste Stream Report

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. Crganization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-000 2. Naste name. | Waste stream K-1420 HC1, HI STRIPPER 4 3. Give years waste generated | Date stopped | Frequency of generation 1944 /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA wasta codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! BC 1D002D007 5. Physical form | /% Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | 10.000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 4,284 14,045 4,284 365 7. DOT shipping name | DOT hazard class | DOT ID cod CORROSIVE 8. Describe generation process. USED TO PREPARE PARTS FOR NICKEL PLATING. WASTE GENERATED DURING ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) Year | last day (kg) 1988 |Handled | TSDF handling/Waste |Amount Handled | On site?| management methods A l Y N BI אץ CI I Y N YN 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials du In process recycling. b() e. Improved operations. . . . et Equipment/technology modification c() f. No effort. f(

Other - explain below: g() No Longer Generated 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-000

Waste name.

K-1420 HC1, NI STRIPPER

| Waste stream 4

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A HYDROCHLORIC ACID

B WATER

C CHROMIUM

| lower | upper 20VOL 25VOL 75VOL HOVOL 57PPM

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor. Small generator (3); Resource recovery (4); Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Condi. tionally exempt (A); Mixed radiological wastse (R).

- 1. Organization's name.
 UNITED STATES DEPT OF ENERGY K-25 SITE
 THO 89-009-000
- 2. Waste name.

 K-1420 HITRIC ACID

 Waste stream
 5
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES | BC | D002D008 | 2819
- 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | 12.000 | .0 | .0
- 6. Generation rates in kilograms.

 Monthly maximum ! Annual average | Max. amount stored | Max. days stor
 1,364 1,364 1,364 365
- 7. DOT shipping name | DOT hazard class | DOT ID cod NOT TRANSPORTED OFF-SITE.# ORM E
- 8. Describe generation process.
 WASTE GENERATED FROM ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE.

				-
	Amount	Handled	Handled	TSDF handling/Waste
	1		On site?	management methods
A	1	0	I Y N I	
В	1		Y N I	
C	İ		l y n l	
D	1		I Y N I	
			_	

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials do
 - . In process recycling. b() e. Improved operations. . . e. Equipment/technology modification c() f. No effort. ft
- g. Other explain below: g() None Generated in 1988
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (Rg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

! EPA ID CODE TMO 89-009-000

Waste name. K-1420 NITRIC ACID

| Waste stream á

12. Chemical Characteristics. pH | Flash point! Reactive code | wastes, indicate PPM. <2.5

Concentration units. For EP toxic

% VOLUME

Major and hazardous consituents.

A NITRIC ACID

B WATER

lower upper 50 55 45 50 6.1PP 6.1

C LEAD

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Yes No | Yes No Yes No Yes

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor-Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF EMERGY N-25 SITE TNO 89-009-000 2. Waste name. | Waste stream ELECTROLESS NICKEL SOLUTION 8 Give years waste generated | Date stopped | Frequency of generation 3. 1944-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BC ID002D007 1 2819 Physical form | % Solid | % Water | Lb. / gal. | Chlorine FPM | BTU/lb. 5. LIQUID, WATER BASED | .0| | 11.000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 12,159 12,159 12,159 7. DOT shipping name | DOT hazard class | DOT ID code # 0 R M - E 8. Describe generation process. USED TO HICKEL PLATE PARTS. THIS WAS A MIXED WASTE. ANNUAL REPORT SECTION ** LINES 9-11 жж Amount generated | Amount on site on | Amount on site on 9. Report | during year (kg) | first day (kg) | last day Year 1988 1 |Amount Handled |Handled | TSDF handling/Waste | On site?! management methods A. I 0 l y n B 1 YN C I I Y N Y N. Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b. Equipment/technology modification c() f. No effort. g. Other - explain below: g() None Generated in 1988

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

IPA ID CODE TNO 89-009-000

Waste name. ELECTROLESS NICKEL SOLUTION

| Naste stream

12. Chemical Characteristics. pH | Flash point! Reactive code | wastes, indicate PPM.

| Concentration units. For EP toxic

% VOLUME Major and hazardous consituents.

A NITRIC ACID B WATER

llower upper 53 53 47 47

C CHROMIUM

5.1

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No Yes

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Repor-Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); tionally exempt (A); Mixed radiological wastse (R).

(kg.

	Hazardous Waste Stream Report - Front JAN 06, 1
See	full instructions for form PH-2022 for additional information and codes.
1.	Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 39-009-000
2.	Waste name. NITRIC ACID BATH 9
3.	Give years waste generated Date stopped Frequency of generation 1954-1985 CONTINUOUS
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES C D002 2819
5.	
6.	Generation rates in kilograms. Nonthly maximum Annual average Max. amount stored ! Max. days stor
7.	DOT shipping name DOT hazard class DOT ID cod
8.	Describe generation process. CLASSIFIED SEAL SHOP OPERATION. THIS IS A MIXED WASTE. CLEANING OF PROCESS EQUIPMENT. THIS IS A MIXED WASTE.
жж 9.	ANNUAL REPORT SECTION ** LINES 9-11
10.	generation of this waste during the reported year
a. b. c.	Reformulation/redesign of product a() d. Substituting raw materials d In process recycling b() e. Improved operations e Equipment/technology modification c() f. No effort f
g.	Other - explain below: g() No Longer Generated
11.	Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF EMERGY K-25 SITE

EPA ID CODE TMO 89-009-000

Waste name. HITRIC ACID BATH

| Naste stream

25

50

25

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. <2 % VOLUME

Major and hazardous consituents. | lower | upper A NITRIC ACID B PHOSPHORIC ACID C WATER

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No l Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Condi tionally exempt (A); Mixed radiological wastse (R).

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 39-009-000L
- 2. Waste name. | Waste stream | K-1401 HYDROCHLORIC ACID 10
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! B.C D002D007 1 2819
- 5. Physical form | /% Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| 1 10.000 1 .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 31,000 259,090 31,000 15
- DOT shipping name | DOT hazard class | DOT ID code NOT TRANSPORTED OFF-SITE.# CORROSIVE
- 8. Describe generation process. METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.
- жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) Year | last day (kg) 1988 32068 |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods 32068 for 1 T-31, T-44, D-84 NPDES Effluen CI DI Y N
- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b.
- Equipment/technology modification c() f. No effort. f(c.
- Other explain below: g(X)

 Neutralized g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b(X) c. No change-c(). | Amt of Reduction (kg) 32068

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-000L

Waste name.

K-1401 HYDROCHLORIC ACID

| Waste stream |

12. Chemical Characteristics. Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. <2.5

Major and hazardous consituents.

A HYDROCHLORIC ACID

B IODINE C WATER

D FORMALDEHYDE

E CHROMIUM

| lower | upper 26VOL 38VOL ; 40VOL 50VOL | 20701 25VOL | 6 VOL 10V0L |

10PPM 20PPM |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Status Report Partial exemption (5); Hazardous (6); Y Accidental (7); No longer generated (8); Variance granted (9); tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Analytical testing is preformed to

determine when wastestream has been

Neutralized

2

Hazardous Waste Stream Report - Front JAN 06, 198 The full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE i EPA ID CODE TNO 89-009-0004 2. Waste name. | Waste stream ID K-1401 ALKALI 11 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARICUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! B,C | D002D007D008 | 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | 10.000 | .0 | 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 19,000 140,454 19,000 7. DOT shipping name | DOT hazard class | DOT ID code NOT TRANSPORTED OFF-SITE.# CORROSIVE Describe generation process. METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE. ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. Amount generated | Amount on site on | Amount on site on | during year (kg) | first day (kg) | last day (kg) |

HOHGH kg | O | O |

Amount Handled	Handled	TSDF handling/Waste	
On site?	management methods		
A	HOHGH kg	Y N	T-31, T-44, D-84 NPDES FEMment
Y N	Y N	T-31, T-44, D-84 NPDES FEMment	
Y N	Y N	T-31, T-44, D-84 NPDES FEMment	
Y N	T-31, T-44, D-84 NPDES FEMment		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
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Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT		
Y N	T-31, T-44, D-84 NPDES FEMMENT 1988 CI Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(I Equipment/technology modification c() f. No effort. f(I Other - explain below: g(x) Newtralized g.		

a. more toxic-a() b. less toxic-b(x) c. No change-c(). | Amt of Reduction

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Organization's name. UNITED STATES DEPT OF EXERGY K-25 SITE

! EPA ID CCDE TNO 89-009-0004

Waste name. K-1401 ALKALI

! Waste stream ID 11

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents. | lower | upper A SODIUM HYDROXIDE 30V 407 B WATER 60Y 70V C CHROMIUM D LEAD 60 70

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

'6. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rcvd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Analytical testing is preformed to determine when the waste stream is New Fradized

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-00C 2. Waste name. | Waste stream K-1501 HYDROGEN SOFTENER BLOWDOWN 12 Give years waste generated | Date stopped | Frequency of generation 3. 1944-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI ID002 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | 8.000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 1,510,000 700,000 be 18,109,091 8,420,000 65 DOT shipping name | DOT hazard class | DOT ID cod NOT TRANSPORTED OFF-SITE.# CORROSIVE 8. Describe generation process. WASTE GENERATED FROM A ZEOLITE BACKWASH SOLUTION FOR WATER SOFTENING AT THE STEAM PLANT. THIS IS A PURE WASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) Year | last day (kg) 1988 8,420,000 ha |Amount Handled | Handled | TSDF handling/Waste A | 8,420,000 & | ON | T-31, D-84 NPDES Effluent | On site? | management methods DI Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the
- generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d

- Other explain below: g(♥

Neutralized

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b(X) c. No change-c(). | Amt of Reduction (kg) 8,420,000

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TMO 89-009-000

Waste name.

K-1501 HYDROGEN SOFTENER BLONDOWN

| Naste stream

12. Chemical Characteristics. pH | Flash point| Reactive code | wastes, indicate PPM.

| Concentration units. For EP toxic

Major and hazardous consituents.

% VOLUME

A WATER

B SULFURIC ACID

lower upper 98 99 2

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Analytical testing is preformed to determine when waste stream is Newtralized

- 1. Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE EPA ID CODE TNO 89-009-000
- Waste name. Scrubber Sludge from K-1901 13/C | Waste stream
- Give years waste generated Date stopped | Frequency of generation 1944-1985 7 /31/85
- closure is finished Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! Cf 10002/F006 12819
- Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. SLUDGE, OTHER BASED | 000.01 10010.000 |
- Generation rates in kilograms. Morthly maximum | Annual average | Max. amount stored | Max. days store
- 7. DOT shipping name | DOT hazard class | DOT ID code
- 8. Describe generation process. BLOWDOWN FROM PURGE SCRUBBER. THIS IS A MIXED WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 9. Report ! Year 1988 |Amount Handled |Handled | TSDF handling/Waste (Obs) AGH | on site? management methods ee | The | S-ot Z | AX 1 T21, T47 (Stabilization) l æn. 1 5-04 (closure project) Y N
- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of projuct a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b.
- Equipment/technology modification c() f. No effort. f(C.
- Other explain below: \dots g(X) g. THIS WASTE IS NO LONGER GENERATED. CURRENT INVENTORY IS BEING REMOVED AND THE SURFACE IMPOUNDMENT IS DEING CLOSED.

 11. Describe changes in volume and toxicity that those reduction efforts
- checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction

Organization's name.

UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

EPA ID CODE TNO 89-009-0001

Waste name.

* Waste stream : 13

pH | Flash point! Reactive code | wastes, indicate PPM.

12. Chemical Characteristics. | Concentration units. For EP toxic % VOLUME

Major and hazardous consituents.

A POTASSIUM HYDROXIDE

B URANIUM

C WATER

| lower | upper TRACE TRACE

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Cate rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No Initials

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally examp; (A);

Mixed radiological wastse (R).

18. Comments.

9 A Raw Studge removed and containersed Not stabilized

9B Fred or Stabilized Sludge includes Stabilization materials

FC Raw Studge to be removed

This waste stream No longer generated.

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0001 2. Waste name. | Waste stream : MUA/MUB ETCHANT 15 3. Give years waste generated | Date stopped | Frequency of generation 1973-/00/00 VARIGUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI В 10008 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 10.01 | 9.000 | .0 i 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 32 96 400 7. DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE LIQUIDS, M.O.S. CORROSIVE 1760 Describe generation process. 8. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A Y N 0 B | ו א צ CI YN Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(Equipment/technology modification c() f. No effort. f(Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY H-25 SITE

| EPA ID CODE THO 89-009-000.

Waste name. MUA/NUB ETCHANT

C SLUDGE

| Wasta stream . 15

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate FPM. 8.7

Major and hazardous consituents. A LEAD B WATER

l lower | upper 6.3 6.3 90 90 10 10

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

<u>.</u>

(kg)

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 2. Waste name. | Waste stream . TIMPOSIT 17 3. Give years waste generated ! Date stopped | Frequency of generation /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BC lD002D007 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 50.0| | 12.000 | .0 1 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 15 60 600 700 DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE LIQUIDS, M.O.S. CORROSIVE 1760 8. Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. жж ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report | during year (kg) | first day (kg) | last day (kg) Year 1988 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A I Y N В 1 У И CI l y n Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b. Equipment/technology modification c() f. No effort. f(

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Other - explain below: g()

g.

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID COD TNO 89-009-00

Waste name. TIMPOSIT

| Waste stream

•

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A CHROMIUM

B WATER

C TIMPOSIT

| lower | upper | 8.3 | 8.3 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe hor
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004

Waste name. | Waste stream I: SODIUM HYDROXIDE SOLUTION 18

- Give years waste generated | Date stopped | Frequency of generation 1978-/00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BC |D002D008 2819
- 5. Physical form | / Solid | Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | 12.000 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 342 600 1,200
- DOT shipping name | DOT hazard class | DOT ID code WASTE SODIUM HYDROXIDE SOLUTION CORROSIVE 1824
- Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 I I |Handled | TSDF handling/Waste |Amount Handled

| On site?| management methods A | Y (X) | I Y W B CI Y N

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(
 In process recycling. b() e. Improved operations. . . . e(
 Equipment/technology modification c() f. No effort. f(
- Other explain below: g(X) circuit Board Manufacturing Process discontinued
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-0004

Waste name. SODIUM HYDROXIDE SOLUTION

| Waste stream I 18

12. Chemical Characteristics. Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A SODIUM HYDROXIDE

B WATER

C LEAD

| lower | upper SVOL 10VOL | BOAOF 95VOL ! 5.8

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Partial exemption (5); Hazardous (6); Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

9 A Generated in 1988. 71 bg 9B Taken out of storage 156 bg Total Disposed of off-site

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 Waste name. | Naste stream SODIUM METAL 20 3. Give years waste generated | Date stopped | Frequency of generation 1983-/00/00 Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! 1D003 1 2819 |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. Physical form 5. 1 100.01 1 .0001 .0 OTHER SOLID 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 700 7. DOT shipping name ! DOT hazard class | DOT ID code WASTE, SODIUM, METAL FLAMMABLE SOLID 1428 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 |Handled | TSDF handling/Waste |Amount Handled | On site?| management methods A 0 YY ВΙ A M. CI YY Y N Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b. Equipment/technology modification c() f. No effort. f(

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

a. more toxic-a() b. less toxic-b() c. No change-c().! Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE THO 89-009-000

Waste name. SODIUM METAL

| Haste stream 20

Major and hazardous consituents. A SODIUM METAL

i lower | upper

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

	Hazardous Waste Stream Report - Front JAN 06,
See	full instructions for form PH-2022 for additional information and codes.
1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-000
2.	Waste name. Y-12 RETURNED WASTE 1 Waste stream 21
3.	Give years waste generated Date stopped Frequency of generation 1984- CONTINUOUS
4.	Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
	CODES! BF F002D006D007 2819 D008D009D002
5.	Physical form % Solid % Water Lb. / gal. Chlorine PPK BTU/1b. LIQUID, WATER BASED 5.0 8.500 .0 .0
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days stor 200,000 2,461,136 58,909 5
7.	DOT shipping name DOT hazard class DOT ID cod WASTE HAZARDOUS WASTE, LIQUIDS, H.O.S. ORM - E 9189
8.	Describe generation process. WASTE STREAM GENERATED FROM TREATMENT OF DOF Y-12 SITE WASTE. THIS IS A MIXED WASTE.
жж 9 [,] .	ANNUAL REPORT SECTION ** LINES 9-11
	Amount Handled Handled TSDF handling/Waste On site? management methods Y N
10	. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

- Reformulation/redesign of product a() d. Substituting raw materials d(
- In process recycling. b() b. e. Improved operations. . . . e(
- Equipment/technology modification c() f. No effort.
- Other explain below: · · · · . g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TMO S9-009-000

Waste name.

Y-12 RETURNED WASTE

| Waste stream 21

Concentration units. For EP toxic 12. Chemical Characteristics. pH | Flash point | Reactive code | wastes, indicate PPM.

6.0-

Major and hazardous consituents. A CHROMIUM

B LEAD

C CADMIUM D WATER

E MERCURY

| lower | upper 0 9100 0 17 O 32 90VOL 95VOL 4

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-000 Waste name. | Waste stream Y-12 BASES RETURNED 22 3. Give years waste generated | Date stopped | Frequency of generation 1984-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes ! SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BCF ID002D007D009 | 2819 F002 Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 10.0| | 8.400 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 74,330 966,284 10 DOT shipping name | DOT hazard class | DOT ID cod WASTE ALKALINE, LIQUID, NOS CORROSIVE 1719 8. Describe generation process. WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE THIS IS A MIXED WASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 1 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods Y N A B Y N CI Y N DI Y N Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d In process recycling. b() e. Improved operations. . . . e Equipment/technology modification c() f. No effort. f c. Other - explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg.

22

See full instructions for form PH-2022 for additional information and codes.

UNITED STATES DEPT OF ENERGY M-25 SITE

Unaste name.

| EPA ID CODE THO 89-009-000

Y-12 BASES RETURNED

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. | PPM
A SPENT HALOGENATED SOLVENTS

B CHROMIUM

C MERCURY

D WATER

1 lower | upper 40V

0P 9100P

0P 2.7P

60V 98V

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 19 Tee full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-0004 Waste name. | Waste stream I K-1401 DIVERSEY 25 Give years waste generated | Date stopped | Frequency of generation 1944-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI I D 0 0 2 2819 5. Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .01 1 9.000 | .0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 4,000 10,000 4,000 30 DOT shipping name 7. ! DOT hazard class | DOT ID code CORROSIVE 8. Describe generation process. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS AMIXED WASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on 9. | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A Y N i B l y n CI I Y N . Y N 1 Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(c. Equipment/technology modification c() f. No effort. f(x) g. Other - explain below: g()

11. Describe changes in volume and toxicity that those reduction extorts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF EMERGY K-25 SITE

EFA ID CODE TNO 89-009-0004

Waste name. K-1401 DIVERSEY

| Waste stream I 26

12. Chemical Characteristics. pH | Flash point! Reactive code | wastes, indicate PPM. <2.5

Concentration units. For EP toxic % VOLUME

Major and hazardous consituents.

lower lupper 20 V 30V SOV

A SODIUM BISULFATE

B WATER 70 V 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

JAN 06, See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID COI UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-00 Waste name. 2. | Waste stream AMMONIUM PERSULFATE 27 Give years waste generated | Date stopped | Frequency of generation 1973-/00/00 VARIGUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI 1D002 2819 5. Physical form 1% Solid | Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 10.0| 1 16.000 [. 0 Generation rates in kilograms. 6. Monthly maximum | Annual average | Max. amount stored ! Max. days sto 100 335 750 500 7. DOT shipping name | DOT hazard class | DOT ID cc WASTE AMMONIUM PERSULFATE OXIDIZER 8. Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report Year

during year (kg) | first day (kg) | last day (kg) 1988 73 bc |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A (N) Y T-31 B I Y N CI Y N Y N

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- a.

b.

- c.
- Other explain below: g(X) Circuit Board Manufactu g. Process discontinued
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID COD: TNO 89-009-000

Waste name. AMMONIUM PERSULFATE

| Waste stream 27

12. Chemical Characteristics. pH | Flash point | Reactive code | wastes, indicate PPM.

| Concentration units. For EP toxic

% VOLUME

Major and hazardous consituents. A AMMONIUM PERSULFATE

lower upper 4 6 84 86

- B NATER
- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up l Yes No | Yes No | Yes No l Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 5 Y Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); Condi tionally exempt (A); Mixed radiological wastse (R).

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TMO 89-009-0004
- 2. Waste name. | Waste stream ID HYDROCHLORIC ACID (20% SOLUTION) 28
- Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI ID002 ' 2819
- 1% Solid | Water | Lb. / gal. | Chlorine PPM | BTU/1b. Physical form LIQUID, WATER BASED | .0| | 14.000 | .0
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 40 223 450
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE HYDROCHLORIC ACID CORROSIVE 1798
 - Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.
- ANNUAL REPORT SECTION ** LINES 9-11 ** Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 226 be | Handled | TSDF handling/Waste |Amount Handled | On site?| management methods 226 BC 1 YB 1 7-31 A I I Y N CI YH Y N
- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d() In process recycling. b() e. Improved operations. . . . e() b.
- Equipment/technology modification c() f. No effort. f()
- Other explain below: g(x) Circuit Board Manufacturing g. Process is discontinued
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.

HYDROCHLORIC ACID (20% SOLUTION)

| Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic
Major and hazardous consituents.

A HYDROCHLORIC ACID
B WATER

l lower | upper 20 20 80 80

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); "ariance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 19 See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-0004 Waste name. | Waste stream I CATALYST 6F 29 Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) D007 CODESI BC |D002D006 2819 |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. Physical form LIQUID, WATER BASED | 10.0| 1 10.000 | .0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 116 300 500 DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760 3. Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. жж ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) Year | last day (kg) 1988 136 hg 1 | | Handled | TSDF handling/Waste |Amount Handled | On site?| management methods I Y (Y) Y N CI YN Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(Equipment/technology modification c() f. No effort. f(Other - explain below: g(X) Circuit Board Manufacturing Process Discontinued 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year. a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

(kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TX0 89-009-0004

Waste name. CATALYST 6F

| Waste stream I 29

12. Chemical Characteristics. pH | Flash point | Reactive code | wastes, indicate PPM. <1

| Concentration units. For EP toxic PPM

Major and hazardous consituents. A CHROMIUM

lower upper 6.5 6.5 10 80

B ACID C WATER 08 90

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-000

Waste name. 2. | Waste stream ACCELERATOR 19 30

- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! 1D002 1 2819
- Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 5. LIQUID, WATER BASED | 5.0| | 10.000 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 120 1,404 1,404 360
- DOT shipping name | DOT hazard class | DOT ID cod WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760
- 8. Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.
- ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 220 bg 1 143 bg 1988 1

|Amount Handled | Handled | TSDF handling/Waste management methods | On site?| A | 220 fg | Y (1) |
B | 143 fg | Y (1) | 7-31 CI l y x YN

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(a. In process recycling. b() e. Improved operations. . . e(
- Equipment/technology modification c() f. No effort. f(
- Other explain below: g(X) Circuit Boards Manufacturing Process Discontinued
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID COD TNO 89-009-00

Waste name. ACCELERATOR 19

! Waste stream 30

12. Chemical Characteristics. pH | Flash point| Reactive code | wastes, indicate PPM. 1.2

Concentration units. For EP toxic

% VOLUME

Major and hazardous consituents.

llower upper A WATER 98 98 B ACID

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repo Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 220 bg 9B Taken out of storage 143 bg

Total Disposal of off-site

<i>3</i> 6	full instructions for form PH-2022 for additional information and codes.
1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004
2.	Waste name. LEAD BATH 1 Waste stream ID 31
3.	Give years waste generated Date stopped Frequency of generation 1973- VARIOUS
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) D002D007D008 2819
5.	Physical form % Solid % Water Lb. / gal. Chlorine PPM BTU/lb. LIQUID, WATER BASED 5.0 12.000 .0 .0
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days stored 120 1,404 1,404 360
7.	DOT shipping name DOT hazard class DOT ID code WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760
გ.	Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.
**	ANNUAL REPORT SECTION ** LINES 9-11
9.	
	Year during year (kg) first day (kg) last day (kg)
	1988 Tast day (Rg)
	Amount Handled Handled TSDF handling/Waste
	Un site?! management methods
	A I O I Y H I
	B Y N C Y N
	D I I N I
10.	Check the efforts undertaken to reduce the volume and toxicity in the
	generation or this waste during the reported wast
a.	Reformulation/redesign of product a() d substitution and a substitution
b.	THE PLUCESS LECYCLING
c.	Equipment/technology modification c() f. No effort
g.	
11.	Describe changes in volume and toxicity that those reduction efforts . checked in line 10 produced last year compared to the previous year.
a.	more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction (Rg)

0.9

16.5

0.9

16.5

49.6 49.6

See full instructions for form PH-2022 for additional information and codes.

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TMO 89-009-0004 Waste name. ! Waste stream I LEAD BATH 31 12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code ! wastes, indicate PPM. <2.0 PPM Major and hazardous consituents. | lower | upper A LEAD 2000 B CHROMIUM 2000 12 C WATER 12 1 26.7 26.7 D PEPTONE 0.48 E FLUOBORIC ACID 0.48 5.7 F BORIC ACID POWDER 5.7

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);
Partial exemption (5); Hazardous (6);
Accidental (7): No. longer generated (2);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

G LEAD FLUOBORATE

H TIN FLUOBORATE

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID COI TNO 89-009-00

2. Waste name. LAC 41

| Waste stream 32

- Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BC |D002D008 2819
- 5. Physical form |% Solid | Water | Lb. / gal. | Chlorine PPM | BTU/1b. LIQUID, WATER BASED | 5.01 1 9.000 1 .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days sto 45 125 600 700
- DOT shipping name | DOT hazard class | DOT ID co WASTE CORROSIVE LIQUIDS, M.O.S. CORROSIVE 1760
- Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on ! Amount on site on 9. Report during year (kg) | first day (kg) Year | last day (kg) 1988 137 bg 1 | Handled | TSDF handling/Waste | On site? | management methods |Amount Handled Y B 1 7-31, 7-21 B (B) Y ! T-31, T-21 CI YN
- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

D 1

- Other explain below: g(x) Circuit Board g. Marufacturing Process Discontinued
- 11. Describe changes in volume and toxicity that those reduction efforts . checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-000

Waste name. LAC 41

| Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A LEAD

B WATER

C ORGANIC ACID

l lower | upper 5 5 98.87

1.2VO

1.270

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

9 A Generated IN 1988

9B Taken out of Storage 90 bs

Total Disposed of off-site

(kg)

Hazardous Waste Stream Report - Front JAN 06, 198 The full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMC 89-009-0004 2. Waste name. | Waste stream ID ACID COPPER BATH 33 Give years waste generated | Date stopped | Frequency of generation 1973-/80/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI ID002 1 2819 LIQUID, WATER BASED | 25.01 1 10.000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 45 468 234 360 7. DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760 Describe generation process. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day Year 1988 1 1 |Handled | TSDF handling/Waste |Amount Handled | On site?| management methods l Y N AΙ 1 BI l y n CI I Y N . Y N Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(
In process recycling. b() e. Improved operations. . . . e(a. Equipment/technology modification c() f. No effort. f(X) Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year. a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE THO 89-009-0004

Waste name. ACID COPPER BATH

C GLYCINE

| Waste stream ID 33

12. Chemical Characteristics. Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM. 1.3 % VOLUME

Major and hazardous consituents. A COPPER SULFATE B SULFURIC ACID

llower upper 85 85 5 5 10 10

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Condi-

tionally exempt (A); Mixed radiological wastse (R).

Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 2. Waste name. | Waste stream NICKEL SULFAMATE 34 3. Give years waste generated | Date stopped | Frequency of generation 1973-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! DOOS 2819 |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 5. Physical form LIQUID, WATER BASED | 15.0| 9.000 | . 0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 40 60 450 700 7. DOT shipping name | DOT hazard class | DOT ID cod WASTE HAZARDOUS SUBSTANCE, LIQUIDS, ORM-E 9188 N.O.S. Describe generation process. 8. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report | during year (kg) | first day (kg) Year l last day (kg) 1988 1 |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods AI YN 0 1 Y N BI Y N CI Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d. In process recycling. b() e. Improved operations. . . e. Equipment/technology modification c() f. No effort. f. C. Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

checked in line 10 produced last year compared to the previous year.

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-000

Waste name. NICKEL SULFAMATE

| Waste stream 34

Major and hazardous consituents.

A NICKEL SULFAMATE

B NICKEL CHLORIDE

C BORIC ACID

D NATER

| lower | upper 28 28 22 22 4 4 46 46

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

=

1. Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

EPA ID C TNO 89-009-

2. Waste name. FLAMMABLE LIQUID LAB PACKS

| . Waste stre 35

- 3. Give years waste generated | Date stopped | Frequency of generati 1 1 Various
- 4. Mark all appropriate hazard criteria belcw. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CCDES! A 10001/F002/F0031 2819
- LIQUID, OTHER BASED | 000.01 | 10008.000 |
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days si 100 bg 1200 bg 1200 bg 360 ipping name 100 hazard class 1 DOT ID c
- 7. DOT shipping name WASTE FLAMMABLE LIQUIDS, H.O.S. FLAMMABLE LIQUID 1993
- 8. Describe generation process. LAB PACKS ARE MADE UP OF SMALL QUARTITIES OF VARIOUS FLAMMABLE LIQUIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site o during year (kg) | first day (kg) | last day (kg) 1154 bg 1 | Amount Handled | Handled | TSDF handling/Waste B | 1154 log | Y B | T-07 management methods
- YN 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials
- C.
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. moze toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID CC THO 89-009-6

Waste name. FLAMMABLE LIQUID LAB PACKS

* Waste stree

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

| lower | uppe

Rep

Y

13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initial
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4);
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 1154 bs 9B Taken out of Storage 33 bg

=

			520 31,
See	full instructions for form PH-2022 for additional additional additional form of the form o	tional information	tion and codes
1.	Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 S	ITE	EPA ID CC
2.	Waste name. CORROSIVE LIQUID LAB PACKS		Waste stres
3.	Give years waste generated Date stopp	ed Frequency	
4.	Mark all appropriate hazard criteria helow Ignitable (a), EP toxic (b), Corrosive (c) Reactive (e), Other toxic (f) CODES! C	. EPA waste co	
		•	12819
5.	Physical form % Solid % Water Lb./g LIQUID, WATER BASED 000.0 0010.	al. Chlorine	PPM BTU/lb.
6.	Monthly maximum Annual average Max.	amount stored	l Max. days st 360
7.	U	DOT hazard cla	ass DOT ID o
8.	Describe generation process. LAB PACKS ARE MADE UP OF SMALL QUANTITIES GENERATED DURING PLANT OPERATIONS.	OF CORROSIVE M	RTERIALS
**	ANNUAL REPORT SECTION ** LINES 9-11		
9.	Report Amount generated Amount on	site on Ame	ount on site o
	Year during year (bg) first dam	(kg) las	st day (kg)
	1988 1230 %	1	0
	Amount Handled Handled T	SDF handling/Wa	aste
		management metl	nods
	B 1 21 ha 1 Y (R) 15	31, 7-21	
	CI LAN 12-	01	
10	D Y N Check the efforts undertaken to reduce the		
10	generation of this waste during the repor	e volume and to	exicity in the
a.	Reformulation/redesign of product a()	. Substituting	raw materials
b.	In process recycling b() e Equipment/technology modification c() f	. Improved oper	rations
		. WA CTIOT! .	• • • • • •
g.	Other - explain below: g()		
11	. Describe changes in volume and toxicity the	at those reduct	tion efforts

checked in line 10 produced last year compared to the previous year.

a. more toxic-a() .b. less toxic-b() c. No change-c(). | Amt of Reductio:

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

FPA ID C TNO 89-009-

Waste name.
CORROSIVE LIQUID LAB PACKS

* Waste stre

12. Chemical Characteristics. | Concentration units. For EP toxipH | Flash point| Reactive code | wastes, indicate PPM: Percent | Concentration units. For EP toxipH | Concentration units. For EP t

O 10

Re:

Y

haboratory and process chemicals

13. If this waste is recovered, reclaimed, recycled, or reused, describe

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initia.
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8);

Variance granted (9); Conditionally exempt (A);

Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 1230 bg 9B Taken out of Storage 21 bg

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ene.	full	instructions	for	form	PH-2022	for	additional	information	and	codes.
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- 1. Organization's name. | EPA ID CODE UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE THO 89-009-0004
- 2. Waste name. | Waste stream | CORROSIVE SOLID LAB PACKS 37
- Give years waste generated | Date stopped | Frequency of generation 1 1 Various
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! 1 D002 12819
- 5. Physical form GRANULAR SOLID |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 1 100.01 10000.000 1
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 250 hs 250 hg
- DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE SOLIDS, N.O.S. CORROSIVE
- Describe generation process. LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF VARIOUS CORROSIVE SOLIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.
- ANNUAL REPORT SECTION ** LINES 9-11 ** Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 259 bs 259 bg 1 Y 1 T-31, T-21 B I Y N I Y N
- Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the
- generation of this waste during the reported year.
- b.
- Other explain below: g() g.

CI DI

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(χ). And of Reduction (kg)

Organization's name.
UNLIED STATES DEPARTMENT OF ENERGY, K-25 SITE

FPA ID CODE THO 89-009-000

Waste name.
CORROSIVE SOLID LAB PACKS

* Waste stream : 37

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
Sodium Hydroxide
Sodium Bi Fluoride

| lower | upper | 0 | 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

2

Hazardous Waste Stream	
Tannessee Besertment on Health and Environment, Division Customs House - Fourth Floor, 731 Broadway, Nashville, T	1 21 20113 94518 GERESETERI. N 37219-5623
1. Organization's tell near at taction. UNITED STATES DEPARTMENT OF ENERGY	1 EP4 (centification code
K-25 Site	4000-900-P80NT
2. Uses name. Use standard name from regulations anenever possible.	! Weste Stream musser
	i i
POISOHOUS LIWUID LAB PACK	38
. Give the years that this waste has been Date no longer generated. senerated e.g. 1975: 1982 (MM/DB/YY)	Frequency of generation
1944 ; ;	Continuous Accidental/ (Various)
. Circle all appropriate hazard criteria below. EPA waste codes. (Prim Ignitable (a). EP toxic (b). Corrosive (c). Reactive (e). Other toxic ①.	SIC code for generating process.
. Physical form Percent Val. to wt. conversion salid water (pounds per gallon) chlorin 10	If used for fuel, the content 1 BTU per pound 1 PFMI /1b.
Generation rates. Supply all rates in kilograms. Maximum amount Monthly maximum Annual average (kg)	stored on site! Naximum days stored (kg)
DOT shipping name DOT hazard cla	ss IDOT ID cade
DASTE POISONOUS LIQUIDS N.O.S. POISON B	UN2810
DASTE POISONOUS LIQUIDS, N.O.S. POISON B. Describe generation process.	1 14.12.10
haboratory chemical or process	· · · · ·
Small anartition (chemicals
Small quantities of various poiso	orous liquids
generated during plant operation	This is a pure wa
E ANNUAL REPORT SECTION EEE Complete at end of each year and when ter- puires notification. Continue with line 12.	minating business for a waste which
Annual generation and handling data. It waste was shipped diff site; a hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions.	Iso subsit Annual Entroling Report for PT", "S", or "D" codes from
hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions.	of on size on
hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions.	"T", "S", or "O" codes from
hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions. Foot Amount generated Amount on site on Am	of on size on day of year (kg)
hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions. Fourt Amount generated Amount on site on during year (kg) first day of year (kg) fast 988 33 Bc O Amount Handled Handled TSDF handling/Waste Amount Handled 33 Pag YH T-27, T-21 5	of Handled ISDF handling/Vaste On site?
hazardous waste generators. For handling in a permitted facility, use instructions. For other handling, use "H" codes from instructions. For other handling, use "H" codes from instructions. FORTY Amount generated Amount on Site on Accordance during year (kg) first day of year (kg)	of IHandled ISDF handling/Vaste On site? sanagement methods ISDF handling/Vaste On site? sanagement methods IY/N

^{11.} Describe changes in volume and toxicity that those reduction efforts described in line 10 produces lest veer compared to the previous year.

Amount of Reduction (42)

a. Increased toxicityra(). b. decreased toxicityro(). c. No changers(X).

2. Cresica: Characteristics Flash count Fractive cost MA MA		unius, For SP conc ice FPM. L'emptil / FPM()
Tagor and hazaroous constituents, larve range of values at right.	11481 VB168	. 3396: vaits
50 dium Cyanide	: 0	100
Potassium Cyanide	0	100
Copper Sulfate	0	100
Various haboratory chemicals	0	100
€.		

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14.	Describe storage Location On site:	treatment, and disposal me Treatment codes	thods using codes in the inst Storage codes 	ructions. Disposal codes
	Off site:			
15.	Identify transport this waste.	ters: ISDF operators and rec Name and address	yclers invalved in handling	
•				
:5.	Cartification: 1 s SIGNATURE: (Genera	ertify that this information tor or authorized represent	n is true, accurate and cossistive) TITLE:	ete.
	Relow is for Depar	tment use only. ***********	; .	*************************
17.	Date received (195	ODYY) Complete? Test o	esults?! Reasonable?! Follow No i Yes No Yes	Ne .
	Resource reco	/// Bassial eventing	not hazardous (2); Small ge nn (5); Hazardous (6); Ac manted (9); Conditionally	Sideufai ()); i ivebo. c

Tannessee Department of mealth and Environment, Div sion of Oustons mouse in Fourth Floor, TDL Broadway, Nashville, TA	37219-5403
Organization's full made at facility. UNITED STATES DEPARTMENT OF ENERGY	EPA identification code
K-25 Site	4000-900-980MT:
. Waste hame. Use standard hame trop regulations whenever possible.	Weste Stream number
POISONOUS SOLIDS LAB PACK	39
Give the years that this waste has been Date no longer generated. generated: e.g. 1975; 1982 (MM/OD/YY)	Frequency of generation
1944	Continuous Accidental/ Variou
. Circle all appropriate hazard criteria below. EPA waste codes. (Primar Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic ①.	process.
. Physical form Percent Vol. to wt. conversion	i 2819 If used for tuel,
SociD solid water (pounds per gallon) chlorine o	content BTU per pound /16.
Generation rates. Supply all rates in kilograms. Maximum amount sto	ored on site! Maximum days stored
(kg) (kg)	(kg)
DOT shipping name I DOT hazard class	iDOT ID code
WASTE POISONOUS SODIDS, N.D.S., POISON B	UN 2811
Laboratory or process chemicals -	
Lasoratory or process chemicals -	
· · · · · · · · · · · · · · · · · · ·	- sinaii Jugirii
of various poisonous solids gener	aled di
of various poisonous solids gener	aled di
of various poisonous solids gener plant operations. This is a pur	e waste.
of various poisonous solids gener plant operations. This is a pur ANNUAL REPORT SECTION *** Cospiete at end of each year and when termin quires notification. Continue with line 12.	e waste. ating business for a waste which
of various poisonous solids gener plant operations. This is a pur	e waste. ating business for a waste which
Plant operations. This is a pur * ANNUAL REPORT SECTION *** Complete at end of each year and when termin autres notification. Continue with line 12. Annual generation and handling data. It waste was shipped off site, also hazardous waste generators. For handling in a permitted facility, use all instructions. For other handling, use "H" codes from instructions.	e waste. eting business for a waste which subsit Annual Shipping Report 13: ", "S", or "D" codes from con site on
Plant operations. This is a pur * ANNUAL REPORT SECTION *** Complete at end of each year and when termin autres notification. Continue with line 12. Annual generation and handling data. It waste was shipped off site, also hazardous waste generators. For handling in a permitted facility, use all instructions. For other handling, use "H" codes from instructions.	e waste. ating business for a waste which subsit Annual Shipping Report for ", "S", or "D" codes from
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7774544(SWN 11/S/ 48V.)

	Chemical Character	istics. . Flash scint	5aaa	Concentratio	a unigg. For th toxi:
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•	Major and hazardou	s constituents. Live :	enge di values at right.	Cuer value	. J2281 VEIUS
	a.		• • • • • •	,	; Jeec, Acide
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	Mecuri	c salts	50/165)	. 0	001
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	If this waste is a	recovered; reclaimed; r	ecycled; or reused; descr	ine how	
				•	
	2				
•	Describe storage:	treatment, and disposa	i methods using codes in		
	Location	Treatment codes	Storage codes	Disposal	codes
	On site:		İ	1	
	1				
	Off site:				
	Off site:				
		ers, TSDF oppeators and	Perviees involved in ha	ndline	
		ers, TSDF operators and	recyclers involved in ha	ndling	
	dentify transporte	ers; TSDF operators and Name and addi		1	tification endo
	dentify transporte			1	Lification code
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Oryanization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID CO THO 89-009-0

Waste name.
OXIDIZING SUBSTANCES, LAB PACK

* Waste strea

12. Chemical Characteristics. | Concentration units. For EP toxic pli | Flash point! Reactive code | wastes, indicate PPM: Percent

Major and hazardous consituents.

| lower | uppe

Various Laboratory, process chemicals

0 /00

13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initial
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Rep Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A), Mixed radiological wastse (R)

18. Comments.

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Hazardous Waste Stream I	Report
Pannessee Genarthent or resith and Environment. Division of Customs nouse of Sourch Floor. DCL Broadways Associates IN 3	Soild Waste Managesent 7219-5463
:. Organization's toll made at theretoy UNITED STATES DEPARTMENT OF EMERGY X-25 SITE	EP4 (centification care
2 three area the same	TN089-009-000U
	Vaste Streen number
HAZARDOUS WASTE LAB PACKS	41
3. Give the years that this waste has been i Date no longer generated. generated, e.g. 1975, 1982 (MM/0D/YY)	Frequency of generation
1944	Continuous Accidental/ Various
4. Circle all appropriate hazard criteria below. EPA waste codes. (Primary Ignitable (a): EP toxic (b): Corrosive (c):	first) SIC code for generating process.
5. Physical form Percent Vol. to wt. conversion	f used for fuel, ntent BTU per pound FFM /Ib.
6. Generation rates. Supply all rates in kilograms. Maximum amount stor Monthly maximum Annual average	ed on site! Maximum days stored
30 (kg) 350 (kg) 350	(10) 360
7. DOT shipping name DOT hazard class	secs 01 700!
Hazardons Waste Liquid ORM-E	NA 9189
	I I
chemicals from Laborat	tory or brocess
Small Quantities of Various hazard	lous waste
chemicals generated during plant	
This	is a pure waste
*** ANNUAL REPORT SECTION *** Complete at end of each year and when terminal requires notification. Continue with line 12.	ting business for a waste which
7. Annual generation and handling data. It waste was shipped off site; also hazardous waste generators. For handling in a permitted facility; use "I" instructions. For other handling; use "H" codes from instructions.	Subsit Annual Shipping Report for "S", or "9" codes from
Report : Amount generated : Amount on site on I Amount of Year during year (kg) first day of year (kg) last day	of year (tg)
1988 236 bg	C year (tg)
" 136 % T-07	indled ISDF handling/Waste in site?! management methods T/N
5-01	n site?! management methods Y/N
10. Check the efforts undertaken to reduce the volume and toxicity in the gene the reported year. This reduction refers to generation processes and not a. Reformulation/redesign of product. a() d. Substituting raw mate 5. In process recycling b() e. Improved operations. c. Equipment/technology modification . c() f. No effort	treatment methods. riaisd()
g. Other - explain beigw:g()	

^{11.} Describe changes in volume and toxicity that those reduction efforts described in line 10 produced last year compared to the previous year.

Amount of Reduction (cg)

a. Increased toxicity=a(); b. decreased toxicity=b(); c. No change=c∞.

	Chetical Characteris: om	iros. Fresh point	Pasculve coop	-85185+	resion units. For EP toric roseste PP* et in Colleges 10 PPM
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	Describe storage, tr Location I On site: I	eatment; and disp Treatment codes	osal methods using codes Storage codes 		ons. Posal codes
	Off size:		1		
_ [ldentify transporters this waste.	ISDF operators a	and recyclers involved in address	1	identification code
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- CS	EIGNATURE: (Generator	or authorized rep it use only. ####	presentative)	*************	*************
8	ELOW is for Department Date received (MYDDY) Status: Not hazardo Resource recovery	or authorized reports of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	resentative) TITLE:	e?! Follow_up Yes No Small generate (6): Accident	Initials In (3); Status Furthe al (7);
- CS	ELOW is for Department Date received (MMDDY) Status: Not hazardo Resource recovery No longer gener	or authorized reports of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	resentative) TITLE:	e?! Follow_up Yes No Small generate (6): Accident	Initials In (3); Status Furthe al (7);
- C S	EIGNATURE: (Generator Leiow is for Department Date received (MYDDY) Status: Not hazardo Resource recovery No longer gener and Mixed radiolo	or authorized reports of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	resentative) TITLE:	e?! Follow_up Yes No Small generate (6): Accident	Initials In (3); Status Furthe al (7);

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-000L Waste name.

SPENT SOLVENTS

| Waste stream]

- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! AF |F001F002D001
- Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 1 2819 LIQUID, WATER BASED | 5.01 | 8.000 | .C 1
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 236,782
- 7. DOT shipping name WASTE HAZARDOUS SUBSTANCE, N.O.S., ORM-E ORM-E | DOT hazard class | DOT ID code 9189
- Describe generation process. WASTE GENERATED FROM VARIOUS DEGREASING, CLEANING, AND PAINTING OPERATIONS. THIS IS A MIXED WASTE.

ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 0 |Amount Handled

| Handled | TSDF handling/Waste 5942 he | On site? | management methods
2017 he | TOT 15-01, 5.02 1600 hg 1 Y 80 1 5-02 DI I Y X

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-000:

Waste name.

| Waste stream : 42

SPENT SOLVENTS

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. % VOLUME Major and hazardous consituents. A HALOGENATED/HONHALOGENATED SOLVENTS

| lower | upper 99 99

B WATER

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

· 17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Partial exemption (5); Hazardous (6); Y Accidental (7); No longer generated (8); Variance granted (9); tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 5942 Bg 9B Taken to Storage 2017 by 90 Shipped off site storage 1600 hg

1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-000L

2. Waste name. PAINT WASTE

| Waste stream | 44

- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes ! SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI AB D008
- 5. Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | 30.0| | 12.000 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 2,812 300 2,812 360
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID 1263
- Describe generation process. WASTE GENERATED FROM THE PAINT SHOPS AT THE PLANT FACILITY. THIS IS A MIXED WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 4594 & 1 0

	e	
Amount Handled	Handled	TSDF handling/Waste
1	On site?	management methods
A 1 731 bc B 1 3863 bc	1 Y (R) 1	
B 1 3003 0		T-07
2 3863 AC	i Eu	5-01, 5-02
C	l Y N	
D 1	ו איצו	
- ·	,,	

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b.
- Equipment/technology modification c() f. No effort. f(c.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-000

Waste name. PAINT WASTE

| Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

9A Generaled in 1988
Off site Disposal

9B ON Site Storage 3863 bg

-

- 'e full instructions for form PH-2022 for additional information and codes.
- Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE EPA ID CODE THO 89-009-0004
- 2. Waste name. METHYLENE CHLORIDE ! Haste stream II 46
- 3. Give years waste generated | Date stopped | Frequency of generation 1 1 VARIOUS
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F !F002 12819
- Physical form |% Solid!% Water|Lb./gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | 000.01 10008.000 |
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- DOT shipping name | DOT hazard class | DOT ID code WASTE DICHLOROMETHANE 0 R M - E 1593
- Describe generation process. WASTE GENERATED DURING EQUIPMENT DEGREASING OPERATIONS. THIS IS A MIXED
- ANHUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 |Amount Handled | Handled | TSDF handling/Waste On site? | . management methods A ן אצו 0 BI l Y N CI YN
- YN 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a.
- ъ.
- Reformulation/redesign of product a() d. Substituting raw materials d(
 In process recycling. b() e. Improved operations. . . . e(
 Equipment/technology modification c() f. No effort. f(X) C.
- Other explain below: g() g.
- 1. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name. METHYLENE CHLORIDE

* Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A METHYLENE CHLORIDE

l lower | upper 95 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

	Hazardous Waste Stream Report - Front JAN 06,
See	full instructions for form PH-2022 for additional information and codes.
1.	Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-00
2.	Waste name. URANIUM HEXAFLUORIDE 47
3.	Give years waste generated Date stopped Frequency of generation 1944-1986 /00/00 VARIOUS
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
	CODES! C 10002 2819
5.	Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb. GAS .000 .0 .0
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days stored 25 25 365
7.	DOT shipping name DOT hazard class DOT ID code waste uranium hexafluoride low specific corrosive 2978 ACTI
8.	Describe generation process. WASTE GENERATED FROM CONTAINERS WHICH HAVE BEEN DAMAGED. UF6 IS SPECIAL NUCLEAR AND BY-PRODUCT MATERIALS ARE EXEMPT BY AEC.
жж	ANNUAL REPORT SECTION ** LINES 9-11
9.	Report Amount generated Amount on site on Amount on site on
	1988
	Amount Handled Handled TSDF handling/Waste On site? management methods Y N B Y N C Y N D Y N
10	• • • • • • • • • • • • • • • • • • • •
	generation of this waste during the reported year.
a.	Reformulation/redesign of product a() d. Substituting raw materials of
b. c.	In process recycling b() e. Improved operations Equipment/technology modification c() f. No effort
g.	Other - explain below: g()

a. more toxic-a() b. less toxic-b() c. No change-c(X). Amt of Reduction (kg)

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

100V

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

i EPA ID CODE TNO 89-009-000

Waste name.
URANIUM HEXAFLUORIDE

A URANIUM HEXAFLUORIDE

| Naste stream 47

100V

- 12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. <2.5 | Major and hazardous consituents. | | lower | upper
- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- 1. Organization's name.
 UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE THO 89-009-0001
- 2. Waste name.
 METHYL ETHYL KETONE PEROXIDE | Waste stream : 48
- 3. Give years waste generated | Date stopped | Frequency of generation 1984 | \(\lambda \lambda 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES | E | 10003. | 12819
- 6. Generation rates in kilograms.

 Monthly maximum | Annual average | Max. amount stored | Max. days store
- 7. DOT shipping name | DOT hazard class | DOT ID code | WASTE METHAL ETHYL KETONE PEROXIDE | ORGANIC PEROXIDE UN2127
- 48. Describe generation process.

 MATERIAL WAS A ONE-TIME DISPOSAL. THE SHELF LIFE HAD BEEN EXCEEDED REQUIRING ONSITE DISPOSAL. THIS WAS A PURE WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) Year l last day (kg) 909 bs | On site?| management methods 909 bg YB A T-07 BI i y n CI I Y N ' D I I Y N
- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(
- b. In process recycling. b() e. Improved operations. . . . e(c. Equipment/technology modification c() f. No effort. f(
- g. Other explain below: g(X) Purchase only quantity required
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID COL TNO 89-009-0C

Waste name. METHYL ETHYL KETONE PEROXIDE

* Waste stream 48

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. >100C

Major and hazardous consituents. A METHYL ETHYL KETONE PEROXIDE

lower upper 100 100

Repo

Y N

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe ho
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials l Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

8

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-0004

Waste name. CHLORINE TRIFLUORIDE

| Waste stream II 49

- Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI λ ID002. 1 2819
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. GAS 1 .01 1 .000 1 .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 25
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE CHLORINE TRIFLUORIDE OXIDIZER 1749
- Describe generation process. WASTE GENERATED FROM LABORATORY AND RESEARCH FACILITIES. THIS IS A PURE WASTE. WASTE IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. WASTE IS GENERATED DUE TO DAMAGED CYLINDER.
- жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 i

| Handled | TSDF handling/Waste | On site? | management methods | S-O5 cylinders |Amount Handled B CI YN YN

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- b.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(χ). Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name.
CHLORINE TRIFLUORIDE

| Naste stream I:

100

ı

100

- 12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concentration units. For EP toxic wastes, indicate PPM. | Concent
- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date royd Complete? Test results? Programble? Test

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. 1. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-000
- 2. Waste name. | Waste stream K-1232 SPENT CARBON FILTER AGENT 52
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI F001 2819
- |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 5. Physical form OTHER SOLID 1 100.01 | 5.000 | .0 I
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 18,000 21,023 21,023
- 7. DOT shipping name | DOT hazard class | DOT ID code
- 8. Describe generation process. WASTE GENERATED FROM CARBON COLUMN CHANGEOUT. THIS IS A MIXED WASTE.
- ANNUAL REPORT SECTION ** LINES 9-11 жж Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) | last day (kg) Year 1988 1 1

	Amount	Handled	Handled	TSDF handling/Waste
	i		On site?	management methods
A	1	0	I YN I	metic meticas
В	1	_	ואץו	
C	ì		· ·	
	!		I Y N I	
D	I		IYN	

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b.
- Equipment/technology modification c() f. No effort. f(c.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-000L

Waste name. K-1232 SPENT CARBON FILTER AGENT

| Waste stream I 52

12. Chemical Characteristics. pH | Flash point! Reactive code | wastes, indicate PPM.

| Concentration units. For EP toxic % WEIGHT

Major and hazardous consituents. A CARBON B VARIOUS HALOGENATED SOLVENTS

lower upper 80 95 5 20

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

	•	
	Hazardous Waste Stream Report - Front	DEC 31
See	full instructions for form PH-2022 for additional informa	tion and code
		EPA ID C
	FLAMMABLE SOLID LAB PACKS	Waste stre
	1944 / VARI	ous
4.	Mark all appropriate hazard criteria below. EPA waste continuous (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! A D001	
_	· · · · · ·	12819
5.	Physical form % Solid % Water Lb. / gal. Chlorine OTHER SOLID 100.01 10000.000	PPM BTU/1b
6.	Monthly maximum Annual average Max. amount stored 30 % 350 % 350 %	71-
7.	DOT shipping name DOT hazard clawaste FLAMMABLE SOLIDS, N.O.S. FLAMMABLE SOLI	uss DOT ID c
8.		•
** 9.	ANNUAL REPORT SECTION ** LINES 9-11 Report Amount generated Amount on site on Amount year during year (kg) first day (l:g) las	unt on site o t day (kg)
	1 (OB Impure transfer to the second	0
	nandled TSDF handling/Wa	ste
	A 322 V	ods
	Y N	
	C Y N	

- Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials
- In process recycling. b() e. Improved operations. . . . Equipment/technology modification c() f. No effort. . . .
- Other explain below: · · · . g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction

Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

1 EPA ID CO TNO 89-009-0

Waste name. FLAMMABLE SOLID LAB PACKS

* Waste strea 54

12. Chemical Characteristics. Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate TPM. Percent

Major and hazardous consituents. Metal Powders

| lower | uppe

Repu

Y:

100 13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initial: | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

6

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TN9 89-009-000 2. Waste name. | Waste stream . HYDROCHLORIC ACID W/STANNOUS CHLORIDE 55 Give years waste generated | Date stopped | Frequency of generation 3. 1985-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EF toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI 1D002 1 2819 |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 5. Physical form 1 .01 | 10.000 | .0 GRANULAR SOLID 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 227 227 227 300 DOT shipping name | DOT hazard class | DOT ID code WASTE CORROSIVE LIQUIDS, H.O.S. CORROSIVE 1760 8. Describe generation process. WASTE GENERATED DURING OPERATION OF PLATING LABORATORY. THIS WAS A PURE WASTE. жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) Year | last day (kg) 1988 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A 1 Y N B l y n CI Y N Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(a. In process recycling. b() e. Improved operations. . . e(b. Equipment/technology modification c() f. No effort. f(C.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (Kq)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE
TNO 89-009-0004

Waste name. HYDROCHLORIC ACID W/STANNOUS CHLORIDE | Waste stream I 55

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate FPM. <1.0

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Polon is for department use only

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

(kg)

See full instructions for form PH-2022 for additional information and codes.

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000L 2. Waste name. ! Haste stream : SODIUM HYDROXIDE SOLUTION 56 Give years waste generated | Date stopped | Frequency of generation 3. 1960-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI C D002 1 2819 Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPN | BTU/lb. LIQUID, WATER BASED | 15.0| | 12.000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 1,636 1,636 1,700 200 7. DOT shipping name | DOT hazard class | DOT ID code WASTE SODIUM HYDROXIDE SOLUTION CORROSIVE 1613 Describe generation process. METALS PLATING LABORATORY OPERATIONS THIS WAS A PURE WASTE. жж ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) | last day (kg) Year 1988 I 0 \bigcirc 1 0 |Handled | TSDF handling/Waste |Amount Handled | On site?| management methods A I \circ l y n BI l Y N CI Y N X N. 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(a. In process recycling. b() a. Improved operations. . . . e(Equipment/technology modification c() f. No effort. f(b. ¢. Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name.

UNITED STATES DEPT OF ENERGY K-25 SITE

Waste name.

SODIUM HYDROXIDE SOLUTION

| Waste stream 56

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. | >12. | % VOLUME

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Reporting Small generator (3); Resource recovery (4); 6 Y

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PK-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 2. Waste name. | Naste stream LAC 4100 57 3. Give years waste generated | Date stopped | Frequency of generation 1985-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI BC 1D002D008 2819 Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 5. LIQUID, WATER BASED | 5.01 | 9.000 | .0 1 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 25 194 300 600 7. DOT shipping name | DOT hazard class | DOT ID cod WASTE CORROSIVE LIQUIDS, M.O.S. CORROSIVE 1760 Describe generation process. 8. PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE. жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day Year 1988 i I |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A 0 l Y N BI l y n CI l Y N Y N Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. a. b.

- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(
- Equipment/technology modification c() f. No effort. f(c.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction 1 (kg)

Organization's name.

UNITED STATES DEPT OF EHERGY K-25 SITE

THO 89-009-00

Waste name.

| Naste stream 57

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.
2.9 | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM

Major and hazardous consituents. A LEAD

B WATER C ORGANIC ACID

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. | EPA ID CODE UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE TNO 89-009-000
- 2. Waste name. | Waste stream HAZARDOUS WASTE LIQUID 60
- 3. Give years waste generated | Date stopped | Frequency of generation 1985
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F002 12819
- LIQUID, OTHER BASED | 000.01 | 10007.000 |
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store
- 7. DOT shipping name DOT shipping name | DOT hazard class | DOT ID code | DOT id code | DOT id code | DOT hazard class | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT id code | DOT i
- Describe generation process. SOLVENT USED FOR CLEANING CENTRIFUGE MANUFACTURING PARTS. THIS WAS A PUR: WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 -----Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) | last day (kg) Year 570 hs 1 0

On site?! management methods Y N

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(c. Equipment/technology modification c() f. No effort. f(
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c≪).! Amt of Reduction (kg)

Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. HAZARDOUS WASTE LIQUID

* Waste stream I 60

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM. >140

Major and hazardous consituents.

A METHYLENE CHLORIDE

B FREON

C ACETONE

D METHYL ETHYL KETONE

| lower | upper | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 10 80 | 1

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8);

Variance granted (9); Conditionally exempt (A);

Mixed radiological wastse (R).

- 1. Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE EPA ID CODE THO 89-009-000
- 2. Waste name. | Waste stream WASTE METHYLENE CHLORIDE 61
- 3. Give years waste generated | Date stopped | Frequency of generation
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F002 13819
- LIQUID, OTHER BASED | 001.0| |0011.000 |
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store
- 7. DOT shipping name WASTE METHYLENE CHLORIDE | DOT hazard class | DOT ID cod. FLAMMABLE LIQUID 1593
- Describe generation process. SOLVENT USED FOR CLEANING CENTRIFUGE MANUFACTURING EQUIPMENT. THIS WAS A PURE WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1227 log 1 | 1988 | Amount Handled | Handled | TSDF handling/Waste | On site? | management methods A | 1227 hg | Y @ | 7-07 CI l y n Y N
- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . e(
- c. Equipment/technology modification c() f. No effort. f(
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(八). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE

| EPA ID COD TNO 89-009-00

Waste name. WASTE METHYLENE CHLORIDE

* Waste stream 61

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM. >140

% VOLUME

Major and hazardous consituents. A METHYLENE CHLORIDE B WATER

lower 1 100 99

Repo

Y N

6

÷.

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, i' See full instructions for form PH-2022 for additional information and codes. Organization's name. 1. EPA ID CODE UNITED STATES DEPT OF ENERGY H-25 SITE THO 89-009-0001 2. Maste name. | Waste stream : CENTRIFUGE EPOXIES/RESINS 62 3. Give years waste generated | Date stopped | Frequency of generation 1970-1985 /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! A ID001 2819 5. Physical form | % Solid | % Nater | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 8.000 | .0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 727 727 727 DOT shipping name 7. | DOT hazard class | DOT ID code WASTE FLAMMABLE LIQUIDS, N.O.S. FLAMMABLE LIQUID 1993 8. Describe generation process. CENTRIFUGE RESEARCH AND DEVELOPMENT OPERATIONS. THIS WAS A PURE WASTE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 - 1 1 |Amount Handled | Handled | TSDF handling/Waste | On site?! management methods A l y n \circ BI l y n CI l Y N X W.

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(a.

In process recycling. b() e. Improved operations. . . . e(b. Equipment/technology modification c() f. No effort. f(

Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-000

Waste name. CENTRIFUGE EPOXIES/RESIKS

| Waste stream 62

- 12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM. <140 | Major and hazardous consituents. | lower | upper
- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

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	Hazardous Waste Stream Report - Front	JAN 06,
See	full instructions for form PH-2022 for additional information	ion and codes
		and oodes.
1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE	EPA ID COD: TNO 89-009-00
2	Waste name.	
	K-1232 CENTRIFUGED SLUDGE	Waste stream 64
3.	Give years waste generated Date stopped Frequency 1985-	of generation
4.	Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)	
	[F006	i 2819
5.	Physical form % Solid % Water Lb. / gal. Chlorine SLUDGE, WATER BASED 70.0 10.000 .0	PPM BTU/1b.
6.	Generation rates in kilograms.	
- •	Monthly maximum Annual average Max. amount stored	
	45,026 90,109 190,481	Max. days stor
	200 h 2400 h 192, 481	750
7.		
	DOT shipping name DOT hazard cla	ss DOT ID cod
	·	
8.	Describe generation process. CENTRIFUGE CAKE GENERATED FROM TREATMENT OF ELECTROPLATIN A MIXED WASTE.	G NASTE. THIS I
жж	ANNUAL REPORT SECTION ** LINES 9-11	
9.	Report Impurt generated Impurt	
٠.	Report Amount generated Amount on site on Amo	unt on site on
		t day (kg)
	1988 2000 bg O	0
	Amount Handled Handled TSDF handling/Wa	
	Amount Handled Handled TSDF handling/Wa On site? management meth S-O Y N S-O Y N	ste
	A 2000 be ON 15-01	ods
	B 2000 10 3-01	
	C I Y N I	
	DIYN	
10.	Check the efforts undertaken to reduce the volume and to	vinito in 12.
	generation of this waste during the renerted was-	
a.	Keiormulation/redesign of product a() 3 culations	raw materials a.
b.		
c.	Equipment/technology modification c() f. No effort.	· · · · · ft
g.	Other - explain below: g()	

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE

| EPA ID CODE THO 89-009-000

Waste name.

K-1232 CENTRIFUGED SLUDGE

| Waste stream 64

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate FPM. % VOLUME

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor-Small generator (3); Resource recovery (4); R Y Partial exemption (5); Hazardous (6);

Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

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- Organization's name. | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. | Waste stream I LABORATORY ACIDS (BMP) 70
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! BC lD002D006D007 | 2819
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 3.0| | 11.000 | .0 | 8.3

D008D009

- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 1,250
 2000
 3,000
 DOT shipping name
 NOT TRANSPORTED OFF-SITE

 1,250
 1,250
 3,000
 1,250
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- 7.
- Describe generation process. THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.
- ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) | 22,913 bg | 0 | 2444 bg Year 1988 2444 bg | Amount Handled | Handled | TSDF handling/Waste | On site? | management methods | S-0 | Y N | S-0 | CI YN YN
- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(χ). And of Reduction (kg

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-000L

Waste name.
LABORATORY ACIDS (BMP)

Waste stream 1 70

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

A B C D	ajor and hazardous VARIOUS ACIDS CADMIUM CHROMIUM LEAD MERCURY	consituents.	1 lower 99 <1 <5 <5	I	upper 99.9 16 790	
			\.Z		20	

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

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- Organization's name. I EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
- 2. Waste name. | Waste stream ID LABORATORY BASES (BMP) 71
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! BC D008D009
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | 5.01 | 11.000 | .0 | .0
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 500 2,500 1,000 600
- 7. DOT shipping name | DOT hazard class | DOT ID code
- 8. Describe generation process. THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report | during year (kg) | first day (kg) | last day (kg) Year 1 1988 3572 hg Obs 376 be |Amount Handled | Handled | TSDF handling/Waste 3196 by | On site? | management methods | GN | S-OI Y N CI l y n YХ
- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(
- Equipment/technology modification c() f. No effort.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). Amt of Reduction (Re

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
LABORATORY BASES (BMP)

| Waste stream II 71

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous cons	ituents. lower	lupper
A VARIOUS BASES	98	99.9
B CADMIUM	. <1	•
C CHROMIUM	•	1.7
D CYANIDE	<5	32
E LEAD	<5	120
	<5	5.7
F MERCURY	<.2	5

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6); 2
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE i EPA ID CODE
- THO 89-009-0004 2. Waste name. LABORATORY ORGANICS (BMP) | Waste stream ID 72
- Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! AB | D001D006D007 | 2819 D009
- Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | 5.0| | 11.000 | .0 |
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- 7. DOT shipping name | DOT hazard class | DOT ID code
- Describe generation process. THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF
- ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 5126 Br 546 bg |Amount Handled | Handled | TSDF handling/Waste 4580 by On site? | management methods BI I Y N CI l Y X D' I Y N
- Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d():
 In process recycling. b() e. Improved operations. . . . e():
 Equipment/technology modification c() f. No effort. f(x): b.
- Other explain below: g() g.
- . . Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name.

LABORATORY ORGANICS (BMP)

Waste stream ID 72

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A VARIOUS ORGANICS

B CADMIUM

C CHROMIUM

D MERCURY

1 lower | upper 98 99.9

<1 1.7

<5 8.7

<.2 446

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4);

Partial exemption (5); Hazardous (6);

Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

. ...

Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TKO 89-009-0004 Waste name. | Naste stream II LABORATORY SLUDGES (BMP) 73 Give years waste generated | Date stopped | Frequency of generation /00/00 CONTINUOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F006. 1 2819 Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. SLUDGE, WATER BASED | 90.01 | .000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 80 by 20 /000 by 360 75 inving name | DOT hazard class | DOT ID code DOT shipping name Describe generation process. Solid waste from laboratory 8. 9494515 ANNUAL REPORT SECTION ** LINES 9-11 жж Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 940 bg 1 B CI YY Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(
In process recycling. b() e. Improved operations. . . e(
Equipment/technology modification c() f. No effort. f(x) Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE INO 89-009-0004

Waste name.
LABORATORY SLUDGES (BMP)

| Waste stream I 73

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

| lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

PRODUCTION OF STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET ST

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); R Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1' See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0001 Waste name. ! Waste stream : SILVER RECOVERY 74 3. Give years waste generated | Date stopped | Frequency of generation 1983-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! В D011 2819 5. Physical form | // Solid | Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | .000 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 620 7,337 10,000 400 7. DOT shipping name | DOT hazard class | DOT ID code 8. Describe generation process. PHOTOGRAPHIC /X-RAY DEVELOPMENT жж ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report | during year (kg) | first day (kg) | last day (kg) Year 1988 | Amount Handled | Handled | TSDF handling/Waste | On site? | management methods | A | /0,364 % | ON | 5-0| B l y n 1 CL Y N 1 Y N. 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(Equipment/technology modification c() f. No effort. f(c.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

g.

a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name. SILVER RECOVERY

Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate FPM.

Major and hazardous consituents. A SILVER

l lower | upper

2

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

pelow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

2. Waste name. BENZOYL PEROXIDE

| Waste stream I 75

- 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! E 1D003 i 2819
- 5. Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 10.800 | .0 |
- Generation rates in kilograms. 6. Monthly maximum | Annual average | Max. amount stored | Max. days stored 1
- 7. DOT shipping name | DOT hazard class | DOT ID code BENZOYL PEROXIDE (30%-52%) WITH INERT UN2809 SOLIDS
- Describe generation process. MATERIAL DISCOVERED DURING CLEAN UP OF LABORATORY AREAS. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 - 1

	Amount Handled	Handled	TSDF handling/Waste
	1	On site?	management methods
A	1 0	IYNI	me chous
В	1	l y n · i	
	i	· · ·	
C	l	YX	
D	1	ו אי ו	

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(
- In process recycling. b() e. Improved operations. . . . e(Equipment/technology modification c() f. No effort. £Q
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name. BENZOYL PEROXIDE

| Waste stream I 75

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A BENZOYL PEROXIDE

l lower | upper 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

76

See full instructions for form PH-2022 for additional information and codes.

- Organization's name. i EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 2. Waste name. | Waste stream I SODIUM PEROXIDE
- 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! E 10003 .
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | 14.0| | .000 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 500
- 7. DOT shipping name | DOT hazard class | DOT ID code SODIUM PEROXIDE OXIDIZER UN1504
- . 3. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
 - ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 1 i

	Amoun	t Handled	Ha				1	TSDF handling/Waste management methods
A B		0	i 1	Y	ĸ		į	management methods
č	İ		į	_		•	ļ	
. D	 		 	Y			l	

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(
- c.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction exforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). Ant of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-0004

Waste name. SODIUM PEROXIDE

Waste stream I: 76

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate FPM.

Major and hazardous consituents. A SODIUM PEROXIDE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

2

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

2. Waste name. HYDROGEN PEROXIDE

| Waste stream I: 77

- 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! E 10003 1 2819
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 8.200 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- 7. DOT shipping name | DOT hazard class | DOT ID code HYDROGEN PEROXIDE (AQUEOUS SOLUTION) >8% OXIDIZER UN2014 <20%
- Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 1

|Amount Handled | Handled | TSDF handling/Waste | On site?! management methods Y (R) | T-24 Bi CI א צ Y N

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

PA ID CODE TNO 89-009-0004

Waste name. HYDROGEN PEROXIDE

| Waste stream I 77

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate TTM. Percent Dooz

Major and hazardous consituents. A HYDROGEN PEROXIDE

| lower | upper 20

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-0004

Waste name. PHOSPHOROUS

| Waste stream I: 79

- Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! AE 1D001D003 2819
- |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 5. Physical form OTHER SOLID 1 100.01 1 .000 1
- Generation rates in kilograms. 6. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- 7. DOT shipping name | DOT hazard class | DOT ID code PHOSPHOROUS, WHITE OR YELLOW, FLAMMABLE SOLID UN1381
- 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED ON STORED AT K-25 SITE.

жж ANNUAL REPORT SECTION ** LINES 9-11

Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 0 I

A	1	Handled	Hand On Y	site	 	TSDF handling/Waste management methods
	-	•	1 1	n.	1	
В	I		l Y	И	l	
C	!		l Y	X .	1	
D	ı		l Y	n	I	

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(b.
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction exforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

i EPA ID CODE TNO 89-009-0004

Waste name. PHOSPHOROUS

Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A PHOSPHOROUS

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Nixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 19 See full instructions for form PH-2022 for additional information and codes. Organization's name. I EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 Waste name. 2. | Naste stream I METALLIC MERCURY 82 Give years waste generated | Date stopped | Frequency of generation 1987-/00/06 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! B ID009. 2819 5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. 0. 1 000. 1 10. 1 OTHER SOLID 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 7. DOT shipping name | DOT hazard class | DOT ID code WASTE MERCURY METALLIC 0 R M - E NA2809 Describe generation process. 8. MERCURY REMOVED FROM INSTRUMENTATION. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) | last day (kg) Year 1988 1 |Amount Handled |Handled | TSDF handling/Waste On site? management methods A I Y N BI YN 1 CI Y N . DI I Y N

Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(
- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE THO 89-009-000L

Waste name.
METALLIC MERCURY

| Waste stream I 82

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A METALLIC MERCURY

l lower | upper 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

	Hazardous Waste Stream Report - Front JAN 06, 19
See	full instructions for form PH-2022 for additional information and codes.
	Organization's name.
	UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004
2.	Waste name.
	THIOACETAMINE Waste stream I
3.	Give years waste generated Date stopped Frequency of generation /00/00 VARIOUS
4.	Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
_	10128 2819
5.	Physical form % Solid % Water Lb. / gal. Chlorine PPM BTU/lb. OTHER SOLID .000 .0 .0
6.	
	Monthly maximum Annual average Max. amount stored Max. days stored 500
7.	DOT shipping name HAZARDOUS WASTE, SOLID, N O S, O R M - E NA9189
•	Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
**	ANNUAL REPORT SECTION ** LINES 9-11
9.	Report Amount generated Amount on site on Amount on site on 1988 last day (kg) last day (kg)
	Amount Handled Handled TSDF handling/Waste
	A On site? management methods
	BIYN
	C ! Y N · !
10.	D Y N
a.	Reformulation/redesign of product o()
b.	Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling b() e. Improved operations e(
c.	Equipment/technology modification c() f. No effort

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below:

a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
THIOACETAMINE

| Maste stream ID 83

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A THIOACETAMINE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Lalow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6); 6
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

:

(kg)

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-0004 Waste name. RAGS CONTAMINATED WITH SOLVENTS l Waste stream II 84 Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI F 1F001 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | ETU/lb. 0. 1 000. 1 10. 1 i . 0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 28 84 7. DOT shipping name | DOT hazard class | DOT ID code HAZARDOUS WASTE SOLID N O S 0 R M - E NA9189 ۹. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day 1988 1 |Amount Handled |Handled | TSDF handling/Naste | On site?| management methods Al YN B l Y N CI Y N D | l y n Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials d() b. In process recycling. b() e. Improved operations. . . . e() Equipment/technology modification c() f. No effort. f(x)

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(X). | Amt of Reduction

Other - explain below: g()

g.

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| ZPA ID CODE TNO 89-009-0004

Waste name.

RAGS CONTAMINATED WITH SOLVENTS

| Waste stream ID 84

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes. indicate PPM.

Major and hazardous consituents.
A TRICKLOROETHANE

l lower | upper 0 10% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

__low is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6); 6 Y
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-0004

Waste name. TSCA INCINERATOR ASH

| Waste stream ID 85

- Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F001F002 2819
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. OTHER SOLID 1 90.01 1 .000 1 .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- 7. DOT shipping name | DOT hazard class | DOT ID code
 - Describe generation process. ASH IS GENERATED DURING OPERATION OF K-1435 TSCA/RCRA DUAL PURPOSE INCINERATOR

ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 97,041 bc | Amount Handled | Handled | TSDF handling/Waste | On site? | management methods 97,041 bg | Bx | 5-01 BI CI Y N DI YX

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d() b. In process recycling. b() e. Improved operations. . . . e() Equipment/technology modification c() f. No effort. f(x)
- Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name.
TSCA INCINERATOR ASH

| Waste stream ID 85

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

| lower | upper

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

low is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Incinerator ash generated during RCRA and TSCA trial burns

- 1. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-0004
- 2. Waste name. METHANOL, PERCHLOROETHYLENE, & ETHYLENE GLYCOL MIXTURE | Waste stream II
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL .
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI F |F003 - 1
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | 9.81 | .000 | .0 . 0
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 984
- 7. DOT shipping name | DOT hazard class | DOT ID code
- Describe generation process. THIS WASTE STREAM WAS GENERATED DURING MINI-BURN OF K-1435 INCINERATOR. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 0 1 D

	Amount	Handled	Handled	TSDF handling/Waste
_	!		On site?	management methods
A	ł	\mathcal{O}	I Y H I	ment of the chods
В			I Y H	
C	1		I Y N	
D	1		l y n	
		_		

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(
- In process recycling. b() e. Improved operations. . . e(Equipment/technology modification c() f. No effort. f(x
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(x). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
METHANOL, PERCHLOROETHYLENE, & ETHYLENE GLYCOL MIXTURE

| Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous A METHANOL	consituents.	llower	lupper
A HEINARUL		-	_ -
B PERCHLOROETHYLENE		5	95
T I PECHTOROFILITIES		E	0.5
C ETHYLENE GLYCOL			95 .]
O HINTHRICE GHICON		5	95 1
		J	75 !

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-0004 2. Waste name. | Waste stream ID METHANOL, PERCHLOROETHYLENE, & KEROSENE 87 3. Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F003 2819 LIQUID, OTHER BASED | .0| | 9.010 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 901 7. DOT shipping name | DOT hazard class | DOT ID code Describe generation process. THIS WASTE STREAM WAS GENERATED DURING MINI-BURN FOR K-1435 INCINERATOR. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 1 1 |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A I YX BI I Y N CI 1 Y N - 1 1 YN Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

شفائضا م دد

1000

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name.

METHANOL, PERCHLOROETHYLENE, & KEROSENE

| Waste stream ID 87

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.	1	lower	lupper	
A METHANOL	•		1 abber	
		5%	0 5 47	
B PERCHLOROETHYLENE		J/4	9 5%	- 1
		5%	0.547	
C KEROSENE	•	374	95%	H
		E" *7		:
		5%	9 5%	i

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 198° See full instructions for form PH-2022 for additional information and codes. Organization's name. I EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TX0 89-009-0004 2. Naste name. ! Waste stream ID METHANOL & WATER 88. Give years waste generated | Date stopped | Frequency of generation 1987 /00/00 ACCIDENTAL Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F003 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/1b. LIQUID, OTHER BASED | 7.5| | .000 | .0 1 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 1,868 1,868 1.868 7. DOT shipping name ! DOT hazard class ! DOT ID code Describe generation process. THIS WASTE WAS GENERATED DURING THE K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 |Amount Handled |Handled | TSDF handling/Waste | On site? | management methods A l Y N - 1 BI YN CI Y N DI YN 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials d() b. In process recycling. b() e. Improved operations. . . . e() c. Equipment/technology modification c() f. No effort. f(x) Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

FPA ID CODE TNO 89-009-0004

Waste name.
METHANOL & WATER

| Waste stream ID 88

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A METHANOL
B WATER

| lower | upper | 5% | 95% | 5% | 95% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. ! EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 Waste name. | Waste stream ID CHLOROBENZENE MIXTURE 89 Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F002 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 9.220 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 461 461 7. DOT shipping name | DOT hazard class | DOT ID code Describe generation process. THIS WASTE STREAM WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 1 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A l y n BI l y n CI Y N D | Y N

Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name. CHLOROBENZENE MIXTURE

| Waste stream ID 89

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A CHLDROBENZENE

! lower | upper 100

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

low is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE THO 89-009-0004 2. Waste name. RESIDUAL CARBON TETRACHLORIDE & SILICONE . | Waste stream ID 90 3. Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL 4. Mark all appropriate hazard criteria below. !EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F001 . Physical form | 1% Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/1b. LIQUID, OTHER BASED ! .0! | 16.340 | .0 1 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 21,502 21.502 7. DOT shipping name | DOT hazard class | DOT ID code Describe generation process. THIS WASTE STREAM WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 I ı |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A I Y N BI I Y N CI Y N Y N Chack the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d() In process recycling. b() e. Improved operations. . . . e() a. c.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.

RESIDUAL CARBON TETRACHLORIDE & SILICONE

| Waste stream ID 90

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | waster indicate PPM.

Major and hazardous consituents.
A CARBON TETRACHLORIDE
B SILICONE

| lower | upper | 95% | 100% | 0 | 5 | 1

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

÷.

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004
- 2. Waste name. | Waste stream ID THIOPHENOL (PHENYL MERCAPTAN) 91
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F IP014 1 2819
- LIQUID, OTHER BASED | .01 | 9.000 | .0 | .0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 500
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE PHENYL MERCAPTAN POISON B UN2337
- Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 - 1 \Diamond \bigcirc

	•
Handled On site? Y N	TSDF handling/Waste management methods
ן איץ ן	
l yn - i	
ן א צ	
	On site? Y N

- Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(c. Equipment/technology modification c() f. No effort. f(x)
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE THO 89-009-0004

Waste name. THIOPHENOL (PHENYL MERCAPTAN)

| Waste stream ID 91

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A THIOPHENOL

| lower | upper 100

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

alow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

(kg)

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-0004 2. Waste name. RESIDUAL CHLOROBENZENE | Waste stream II 92 Give years waste generated | Date stopped | Frequency of generation 3. /00/00 ACCIDENTAL . Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F |F002 2819 Physical form | % Solid!% Water|Lb./gal. | Chlorine PPM | BTU/lb. 5. LIQUID, OTHER BASED | .0| | 9.220 | .0 | . 0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 1,441 1,441 7. DOT shipping name | DOT hazard class | DOT ID code 8. Describe generation process. THIS WASTE WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 1 Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A \bigcirc I Y N I B I Y N CI 1 Y X 1 YN Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d() b. c. Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year. a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

PA ID CODE THO 89-009-0004

Waste name. RESIDUAL CHLOROBENZENE

| Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A CHLOROBENZENE

l lower | upper 100

=

- 13. If this waste is recovered, reclaimed, recycled, or reused, describe how.
- 16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

low is for department use only.

| Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Yes No | Y

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1989 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE I EPA ID CODE TMO 89-009-0004 2. Waste name. METAL SHAVINGS CONTAINING LEAD | Waste stream ID 93 3. Give years waste generated | Date stopped | Frequency of generation /00/00 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! R 10008 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 1 .00 1 .000 1 . 0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 73 73 7. DOT shipping name | DOT hazard class | DOT ID code Describe generation process. METAL SHAVINGS GENERATED DURING FABRICATION OF METAL PARTS. ANNUAL REPORT SECTION ** LIKES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 1 0 |Amount Handled | Handled | TSDF handling/Waste | On site? | management methods A ן איצ ו \circ B l y n CI l Y H D Y N · I 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d() In process recycling. b() e. Improved operations. . . e() b. Equipment/technology modification c() f. No effort. f(x) Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

more toxic-a() b. less toxic-b() c. No change-c().! Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF EMERGY K-25 SITE

EPA ID CODE TMO 89-009-0004

Waste name.

METAL SHAVINGS CONTAINING LEAD

| Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A LEAD

| lower | upper 1% 5%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE: (Generator or authorized representative), title and date.

blow is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 198 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TMO 89-009-0004 Waste name. | Waste stream ID VANADIUM PENTOXIDE 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS 4. Mark all appropriate hazard criteria below. !EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F IP120 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 1 .01 | .000 | .0 | 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 7. DOT shipping name | DOT hazard class | DOT ID code WASTE VANADIUM PENTOXIDE 0 R M - E UN2862 Describe generation process. Ω. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 |Amount Handled | Handled | TSDF handling/Waste | On site?! management methods A 0 YN BI l y x CI l Y N Y N - 1 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d()
In process recycling. b() e. Improved operations. . . . e() a. b. Equipment/technology modification c() f. No effort. f(x) c.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

Control of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the Sta

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE TNO 89-009-0004

Waste name. VANADIUM PENTOXIDE

! Waste stream ID

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A VANADIUM PEROXIDE

| lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

low is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Small generator (3); Resource recovery (4); Report Partial exemption (5); Hazardous (6); Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1980 See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TMO 89-009-0004 Waste name. PROPANE | Waste stream ID 95 3. Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! A 1 D O O 1 1 Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 5. 1 .000 1 .0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 7. DOT shipping name | DOT hazard class | DOT ID code Describe generation process. 8. WASTE GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED ANNUAL REPORT SECTION ** LINES 9-11 жж Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 | On site? | management methods A 1 Y N BI 1 YN CI I Y N YN 10. Check the efforts undertaken to reduce the volume and toxicity in the 1 I generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d() a. In process recycling. b() e. Improved operations. . . . e() Equipment/technology modification c() f. No effort. f(x) b. g. Other - explain below: g()

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b().c. No change-c().l Amt of Reduction

(kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

i EPA ID CODE TNO 89-009-0004

Waste name. PROPANE

| Waste stream ID 95

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A PROPANE

l lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

low is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

2

(kg)

	Hazardous Waste Stream Report - Front JAN 06, 198
See	full instructions for form PH-2022 for additional information and codes.
. •	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004
2.	Naste name. DEUTERIUM i Waste stream ID 96
3.	Give years waste generated Date stopped Frequency of generation 1987- /00/00 ACCIDENTAL
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! A DO01 2810
5.	Physical form
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days stored
7.	DOT shipping name DOT hazard class DOT ID code
۹.	Describe generation process. WASTE IS GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
жж 9.	ANNUAL REPORT SECTION ** LINES 9-11 Report Amount generated Amount on site on Amount on site on Year during year (kg) first day (kg) last day (kg) 1988 O
10. a. b. c.	generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d() In process recycling b() e. Improved operations e() Equipment/technology modification c() f. No effort fex Other - explain below:
,	Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
a.	more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE TNO 89-009-0004

Waste name. DEUTERIUM

Waste stream I: 96

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A DEUTERIUM

l lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized rapresentative), title and date.

pelow is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004
- Waste name. | Waste stream I: PROPYLENE 97
- Give years waste generated | Date stopped | Frequency of generation /00/00 ACCIDENTAL .
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI A ID001 1 2819
- 5. Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. 0.01 1 .000 1 .0 1 . 0
- 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- 7. DOT shipping name | DOT hazard class | DOT ID code
- 8. Describe generation process. WASTE GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 ı 1

	Amount	Handled	Handled	1	TSDF handling/Waste
	1			-	
_			On sit	:6 ?	management methods
A	1		lчи	ı	
В	1	_		:	
-	:		Y N	ı	
C	i		I Y N .	1	
ת	1		_	:	
ט	ı		I Y N	i	
l• 1	-bE-E				

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(
- Equipment/technology modification c() f. No effort. fx
- Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. PROPYLENE

Waste stream I. 97

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A PROPYLENE

l lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

delow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

JAN 06. See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE I EPA ID COD TMO 89-009-00 2. Waste name. Haste stream ACETONITRILE 98 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. !EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES 10003 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .01 | 6.530 | .0 | 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days sto: 500 7. DOT shipping name | DOT hazard class | DOT ID cod WASTE ACETONITRILE FLAMMABLE LIQUID NA 1648 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on 9. Report during year (kg) | first day (kg) | last day (kg) Year 1988 i 0 \circ |Amount Handled | Handled | TSDF handling/Waste | On site?! management methods A I l y n \circ l y n Ві CI ИЧ ΥŃ 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d In process recycling. b() e. Improved operations. . . . e b. Equipment/technology modification c() f. No effort. f c. Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction_efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg

Organization's name. UNITED STATES DEPT OF EMERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. ACETONITRILE

| Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A ACETONITRILE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

pelow is for department use only.

17. Date rovd Complete? Test regulation as

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

:

Hazardous Waste Stream Report - Front JAN 06, See full instructions for form PH-2022 for additional information and codes. Organization's name. UNITED STATES DEPT OF EHERGY K-25 SITE | EPA ID COD! TNO 89-009-000 2. Waste name. | Waste stream ARSENIC 99 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! B ID004 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 1 .01 1 .000 1 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 7. DOT shipping name | DOT hazard class | DOT ID cod WASTE ARSENIC, SOLID POISON B UN1558 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) 1988 0 i |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A | B | I Y Y I 0 I Y H CI l y n Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b. Equipment/technology modification c() f. No effort. fC Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b..less toxic-b() c. No change-c(). | Amt of Reduction

(kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. ARSENIC

| Waste stream I:

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

A ARSENIC

l lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Nixed radiological wastse (R).

- Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004
- Waste name. | Waste stream I ARSENIC TRIOXIDE 100
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F IP012 2819
- Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. 1 0. 1 000. 1 10. 1
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored
- DOT shipping name WASTE ARSENIC TRIOXIDE, SOLID 7. DOT shipping name | DOT hazard class | DOT ID code POISON B UN1561
- Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 1

_		0
Amount Handled	Handled On site?	TSDF handling/Waste management methods
A !	ן איצ ו	
В	l y k	
CI	I Y N I	
ם ו	YN	

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.

- Other explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name.
ARSENIC TRIOXIDE

| Naste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A ARSENIC TRIOXIDE

l lower | upper

=

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (E).

- Organization's name. | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE THO 89-009-0004 Waste name. | Waste stream I BENZIDINE 101 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 10021 1 2819 OTHER SOLID 0. 1 000 1 .0 1 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 1 7. DOT shipping name | DOT hazard class | DOT ID code WASTE BENZIDINE, SOLID POISON B UN1885 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 ı |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A I Y N I ВΙ l Y N CI Y N. DI Y N Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(
 In process recycling. b() e. Improved operations. . . . e(
 Equipment/technology modification c() f. No effort. f(x) b. Other - explain below: g() g. 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction | (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

I EPA ID CODE THO 89-009-0004

Waste name. BENZIDINE

| Naste stream I:

12. Chemical Characteristics. | Concentration units. For EP toxic PH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A BENZIDINE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

elow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TNO 89-009-0004
- Waste name. | Waste stream II CARBON DISULFIDE 102
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 1P022 2819
- Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. 5. LIQUID, OTHER BASED | .01 | .000 | .0 1
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 1 500
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE CARBON DISULFIDE FLAMMABLE LIQUID UN1131
- Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 1 1 Amount Handled |Handled | TSDF handling/Waste

| On site?| management methods A I YX B אצו CI I Y N . DI Y H 1

- Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(a.
- In process recycling. b() e. Improved operations. . . e(Equipment/technology modification c() f. No effort. fx
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
CARBON DISULFIDE

| Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A CARBON DISULFIDE

lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 19 See full instructions for form PH-2022 for additional information and codes. 1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-0004 Waste name. i Waste stream I CYCLOHEXANE 103 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 10056 i 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| 1 6.500 1 . 0 I . 0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 7. DOT shipping name | DOT hazard class | DOT ID code WASTE CYCLOHEXANE FLAMMABLE LIQUID UN1145 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 Amount Handled |Handled | TSDF handling/Waste | On site?| management methods Al YY B l Y N CI l y n D | Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. а. b. c. Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

च**र**्

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. CYCLOHEXANE

| Waste stream I:

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A CYCLOHEXANE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CODE TNO 89-009-0004
- Waste name. DIBUTYL PHTHALATE | Waste stream II 104
- 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS
- Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 10069 1 2819
- 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 8.760 | .0 | . 0
- Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 2 2
- 7. DOT shipping name | DOT hazard class | DOT ID code WASTE DIBUTYL PHTHALATE POISON B UN2810
- 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE.
- ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 1

		_		•
	Amount	Handled	Handled	TSDF handling/Waste
	ļ		On site?	management methods
A	1	O	l Y N	methods methods
В	1		IYNI	
C	1		I Y N	
D	Ī		IVN	
		_		

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(b.
- Other explain below: g() g.

". " (a. **5'(\$16**-32).

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
DIBUTYL PHTHALATE

| Waste stream II

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A DIBUTYL PHTHALATE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Selow is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 19 See full instructions for form PH-2022 for additional information and codes. _1. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 Waste name. | Waste stream I DICHLOROBENZENE 105 Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 10070 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 12.510 | .0 | .0 Generation rates in kilograms. 6. Monthly maximum | Annual average | Max. amount stored | Max. days store 7. DOT shipping name | DOT hazard class | DOT ID code WASTE DICHLOROBENZENE, LIQUID 0 R M - E UN1591 Describe generation process. З. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 i |Handled | TSDF handling/Waste Amount Handled | On site?| management methods A I Y N B l y n CI Y N · DI YY Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. b.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0004

Waste name. DICHLOROBENZENE

| Waste stream II 105

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A DICHLOROBENZERE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE: (Generator or authorized representative), title and date.

elow is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1' See full instructions for form PH-2022 for additional information and codes. Organization's name. | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TN9 89-009-0001 Waste name. | Waste stream : 2,4-DINITROPHENOL 106 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F P048 1 2819 5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. OTHER SOLID 10. 0.000 | .0 1 . 0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 500 7. DOT shipping name ! DOT hazard class | DOT ID code WASTE DINITROPHENOL, SOLID FLAMMABLE SOLID 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Amount generated | Amount on site on | Amount on site on Report during year (kg) | first day (kg) | last day (kg) Year 1988 1 |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A Y N i B 1 1 YK CI YN. Di Y N 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(a. b. Equipment/technology modification c() f. No effort. £C Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name. 2,4-DINITROPHENOL

| Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A 2,4 DINITROPHENCE

lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials
| Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

- See full instructions for form PH-2022 for additional information and codes. Organization's name. I EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-0004 Waste name. | Waste stream I: DIOCTYL PHTHALATE 107 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F | U 107 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| 1 8.090 | .0 | . 0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 2 7. DOT shipping name | DOT hazard class | DOT ID code WASTE DIOCTYL PHTHALATE POISON B UN2810 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 |Amount Handled | Handled | TSDF handling/Waste | On site?! management methods A | I Y N I B I Y N CI Y N. D | Y N Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. a. Reformulation/redesign of product a() d. Substituting raw materials d(b. In process recycling. b() e. Improved operations. . . . e(c. Equipment/technology modification c() f. No effort. fox Other - explain below: g() g.
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-0004

Waste name.
DIOCTYL PHTHALATE

| Waste stream I

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A DIOCTYL PHTHALATE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. 11. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 2. Waste name. | Waste stream ETHYL ACETATE 108 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F U112 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 7.420 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 7. DOT shipping name | DOT hazard class | DOT ID code WASTE ETHYL ACETATE FLAMMABLE LIQUID Describe generation process. 8. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 ı 1 0 |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A l Y N B l y n CI I Y N ו מ YN Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(a. b. In process recycling. b() e. Improved operations. . . e(c. Equipment/technology modification c() f. No effort. f(Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE

1 EPA ID CODE THO 89-009-000

Waste name. ETHYL ACETATE

Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point! Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A ETHYL ACETATE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor-Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1' See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TMO 89-009-0001 Waste name. | Waste stream : FORMIC ACID 109 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F 10123 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, WATER BASED | .0| | :0.200 | .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days store 25 25 500 7. DOT shipping name | DOT hazard class | DOT ID code WASTE FORMIC ACID, LIQUID CORROSIVE UN1779 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 1 1 | On site?| management methods A ו א צ 1 В l y n

Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(

Y N. Y N

a. b.

c.

Other - explain below: g() g.

CI

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE TNO 89-009-0001

Waste name. FORMIC ACID

| Waste stream : 109

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A FORMIC ACID

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

(kg)

See full instructions for form PH-2022 for additional information and codes.

1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE	EPA ID CODE THO 89-009-000
2.	Waste name. HEXACHLOROBENZENE	Waste stream . 110
3.	Give years waste generated Date stopped Frequency 1987- VARIO	of generation
4.	Mark all appropriate hazard criteria below. EPA waste co Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)	des SIC
	CODES! F U127	1 2819
5.	Physical form % Solid % Water Lb./gal. Chlorine OTHER SOLID .01 .000 .0	PPM BTU/1b.
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored 1 1 ;	Max. days store 500
7.	DOT shipping name DOT hazard cla HAZARDOUS WASTE, SOLID O R M - E	ss DOT ID code NA9189
8.	Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MA NORMALLY GENERATED OR STORED AT K-25 SITE.	TERIAL IS NOT
жж	ANNUAL REPORT SECTION ** LINES 9-11	
9.	Report Amount generated Amount on site on Amo	unt on site on t day (kg)
	Amount Handled Handled TSDF handling/Wa On site? management meth Y N	ste ods
10.	Check the efforts undertaken to reduce the volume and to	xicity in the
a.	generation of this waste during the reported year	
b.	Reformulation/redesign of product a() d. Substituting In process recycling b() e. Improved oper	raw materials d(
c.	Equipment/technology modification c() f. No effort	£(
g.		
11.	Describe changes in volume and toxicity that those reduct checked in line 10 produced last year compared to the pre-	ion efforts vious year.

a. more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-000

Waste name. HEXACHLOROBENZENE

| Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A HEXACHLOROBENZENE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Repor-Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

(kg)

See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 Waste name. | Waste stream MAPHTHALENE 111 Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES F 10165 2819 |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. Physical form OTHER SOLID .01 0.000 | 0.0 ŀ Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stored 7. DOT shipping name | DOT hazard class | DOT ID code WASTE HAPHTALENE 0 R M - E UN1334 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. жж ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on -during year (kg) | first day (kg) | last day Year (kg) 1988 1 1 \mathbf{O} |Amount Handled |Handled | TSDF handling/Waste | On site?| management methods A I YN BI l y n CI YX YN Check the efforts undertaken to reduce the volume and toxicity in the 10. generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d(a. In process recycling. b() e. Improved operations. . . e(b. Equipment/technology modification c() f. No effort. f(Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE

I EPA ID CODE TNO 89-009-0001

Waste name. HAPHTHALENE

| Haste stream | 111

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A NAPHTHALENE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. Organization's name. EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000. 2. Waste name. l Waste stream . HITROBENZENE 112 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CCDESI I U 169 1 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 10.000 | .0 Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor. 1 500 | DOT hazard class | DOT ID code 7. DOT shipping name WASTE KITROBENZENE, LIQUID POISON B UN2810 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 Report | Amount generated | Amount on site on | Amount on site on 9. during year (kg) | first day (kg) | last day (kg) Year 1988 1 ſ |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A l y n 0 ı BI l Y N CI l y n ΥŃ 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a.

b.

C.

Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction (kg.

Organization's name. UNITED STATES DEPT OF EMERGY K-25 SITE

| EPA ID CODE TNO 89-009-000

Waste name. NITROBENZENE

| Haste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A NITROBENZENE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Reportion (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

	2022 for additional information and codes
1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE EPA ID CO
2.	Waste name. HITROPHENOL Waste stream
3.	Give years waste generated Date stopped Frequency of generation /00/00 VARIOUS
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F
_	
5.	Physical form % Solid % Water Lb./gal. Chlorine PPM BTU/lb. OTHER SOLID .000 .0
6.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days sto
7.	DOT shipping name DOT hazard class DOT ID co
8.	Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE.
жж	ANNUAL REPORT SECTION ** LINES 9-11
9.	Report Amount generated Amount on site on Amount on site on 1988
	Amount Handled TSDF handling/Waste On site? management methods Y N C Y N
10.	Check the efforts undertaken to reduce the materials
a.	Reformulation/redesign of product of)
b.	In process recycling b() Equipment/technology modification () Equipment/technology modification ()
c.	Equipment/technology modification c() f. No effort
g.	Other - explain below: g()

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

TNO 89-009-0001

Waste name. NITROPHENOL

| Waste stream | 113

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A NITROPHENOL

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Report Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

See	full instructions for form PH-2022 for additional information and codes.
1.	Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-00
2.	Waste name. PARALDEHYDE 114
3.	Give years waste generated Date stopped Frequency of generation 1987- /00/00 VARIOUS
4.	Mark all appropriate hazard criteria below. EPA waste codes SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) U128 2819
5.	
5.	Generation rates in kilograms. Monthly maximum Annual average Max. amount stored Max. days sto 500
7.	DOT shipping name DOT hazard class DOT ID co WASTE PARALDEHYDE FLAMMABLE LIQUID UN1264
8.	Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.
ж ж 9.	ANNUAL REPORT SECTION ** LINES 9-11
	Amount Handled Handled TSDF handling/Waste On site? management methods Y N
10. a. b.	generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials In process recycling b() e. Improved operations Equipment/technology modification c() f. No effort
g.	Other - explain below: g()

- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). Amt of Reduction (kg

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE THO 89-009-000

Waste name. PARALDEHYDE

| Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A PARALDEHYDE

l lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

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Hazardous Waste Stream Report - Front JAN 06, See full instructions for form PH-2022 for additional information and codes Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE I EPA ID CO TNO 89-009-0 2. Waste name. PYRIDINE | Wasta strea 115 3. Give years waste generated | Date stopped | Frequency of generatio /00/00 VARIOUS . Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F | U196 2819 5. Physical form | % Solid | % Water | Lb. / gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 8.230 | .0 1 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days sto 5 7. DOT shipping name | DOT hazard class | DOT ID cc WASTE PYRIDINE FLAMMABLE LIQUID UN1282 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT HORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) 1988 | On site?! management methods A IYN BI I Y N CI I Y N ΥN 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. Reformulation/redesign of product a() d. Substituting raw materials d In process recycling. b() e. Improved operations. . . . e

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

Other - explain below: g()

c.

g.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Equipment/technology modification c() f. No effort. f

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

EPA ID CODE THO 89-009-000

Waste name. PYRIDINE

| Waste stream 115

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents. A PYRIDINE

| lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date rovd Complete? Test results? Reasonable? Follow-up | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor. Small generator (3); Resource recovery (4); Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Condi tionally exempt (A); Mixed radiological wastse (R).

Hazardous Waste Stream Report - Front JAN 06, ' See full instructions for form PH-2022 for additional information and codes. Organization's name. FFA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TM9 89-009-00C Waste name. | Waste stream SELEHIUM DIOXIDE 116 3. Give years waste generated | Date stopped | Frequency of generation /00/00 VARIOUS Mark all appropriate hazard criteria below. | EPA waste codes | SIC 4. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODESI 10204 2819 5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb. OTHER SOLID 0. 1 000 1 .0 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 500 7. DOT shipping name WASTE SELENIUM DIOXIDE | DOT hazard class | DOT ID cod POISON B UN2811 8. Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on during year (kg) | first day (kg) | last day (kg) Year 1988 0 |Amount Handled | Handled | TSDF handling/Waste | On site?| management methods A i 0 I Y N I B Y N CI YX YЙ

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. a.

Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(b.

Equipment/technology modification c() f. No effort. f(

Other - explain below: g() g.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction

Organization's name. UNITED STATES DEPT OF ENERGY K-25 SITE

FPA ID COD.
TNO 89-009-00

Waste name. SELENIUM DIOXIDE

Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A SELENIUM DIOXIDE

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No

Status! Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 5 Y Partial exemption (5); Hazardous (6); 6 Y Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

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Hazardous Waste Stream Report - Front JAN 06, 1 See full instructions for form PH-2022 for additional information and codes. Organization's name. | EPA ID CODE UNITED STATES DEPT OF ENERGY K-25 SITE TNO 89-009-000 2. Waste name. | Waste stream TETRAHYDROFURAN 117 3. Give years waste generated | Date stopped | Frequency of generation 1987-/00/00 VARIOUS 4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) CODES! F U213 | 2819 5. Physical form | % Solid | % Water | Lb. /gal. | Chlorine PPM | BTU/lb. LIQUID, OTHER BASED | .0| | 7.410 | .0 Ī 6. Generation rates in kilograms. Monthly maximum | Annual average | Max. amount stored | Max. days stor 500 | DOT hazard class | DOT ID cod: 7. DOT shipping name WASTE TETRAHYDROFURAN FLAMMABLE LIQUID UN2056 Describe generation process. MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. ** ANNUAL REPORT SECTION ** LINES 9-11 9. Report | Amount generated | Amount on site on | Amount on site on g)

Year 1988	during year	(kg) first da	y (kg) last	day (kg
1900	, 0	1) !	0
	Amount Handled	Handled On site?	TSDF handling/Waste	
A B	1 0	Y N I	management methods	>
C D	1	Y H Y H		

- 10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.
- Reformulation/redesign of product a() d. Substituting raw materials d(In process recycling. b() e. Improved operations. . . . e(b.
- g. Other explain below: g()
- 11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.
- a. more toxic-a() b. less toxic-b() c. No change-c(). | Amt of Reduction 1 (kg)

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID COD: THO 89-009-00:

Waste name. TETRAHYDROFURAN

| Waste stream

12. Chemical Characteristics. | Concentration units. For EP toxic pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A TETRAHYDROFURAN

l lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete. SIGNATURE! (Generator or authorized representative), title and date.

Below is for department use only.

17. Date roud Complete? Test results? Reasonable? Follow-up Initials | Yes No | Yes No | Yes No | Yes No

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor Small generator (3); Resource recovery (4); 6 Y Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

18. Comments.

•-